

STIC EIC 2100 153441 G Search Request Form

Today's Date: 5/16/05

What date would you like to use to limit the search?

Priority Date: 1/11/02

Other:

Name Nguyen, Cam Linh

AU 2161 Examiner # 78921

Room # RND-3021 Phone 4024

Serial # 10/044,720

Format for Search Results (Circle One):

PAPER

DISK

EMAIL

Where have you searched so far?

USP DWPI EPO JPO ACM IBM TDB

IEEE INSPEC SPI Other _____

Is this a "Fast & Focused" Search Request? (Circle One) YES NO

A "Fast & Focused" Search is completed in 2-3 hours (maximum). The search must be on a very specific topic and meet certain criteria. The criteria are posted in EIC2100 and on the EIC2100 NPL Web Page at <http://ptoweb/patents/stic/stic-tc2100.htm>.

What is the topic, novelty, motivation, utility, or other specific details defining the desired focus of this search? Please include the concepts, synonyms, keywords, acronyms, definitions, strategies, and anything else that helps to describe the topic. Please attach a copy of the abstract, background, brief summary, pertinent claims and any citations of relevant art you have found.

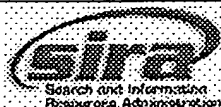
- Virtual buffers

- EOC

- calculate distance between EAC

STIC Searcher Geoffrey St. Leger Phone 23540

Date picked up 5/16/5 Date Completed 5/16/5





STIC Search Report

EIC 2100

STIC Database Tracking Number

TO: Cam-Linh T Nguyen
Location: RND 3C21
Art Unit : 2161
Monday, May 16, 2005

Case Serial Number: 10/044720

From: Geoffrey St. Leger
Location: EIC 2100
Randolph-4B31
Phone: 23450

geoffrey.stleger@uspto.gov

Search Notes

Dear Examiner Nguyen,

Attached please find the results of your search request for application 10/044720. I searched Dialog's patent files, technical databases and general files.

Please let me know if you have any questions.

Regards,



Geoffrey St. Leger
4B31/x23540



STIC Search Results Feedback Form

EIC 2100

Questions about the scope or the results of the search? Contact *the EIC searcher or contact:*

**Anne Hendrickson, EIC 2100 Team Leader
272-3490, RND 4B28**

Voluntary Results Feedback Form

➤ I am an examiner in Workgroup: Example: 2133

➤ Relevant prior art **found**, search results used as follows:

- ☐ 102 rejection
- ☐ 103 rejection
- ☐ Cited as being of interest.
- ☐ Helped examiner better understand the invention.
- ☐ Helped examiner better understand the state of the art in their technology.

Types of relevant prior art found:

- ☐ Foreign Patent(s)
- ☐ Non-Patent Literature
(journal articles, conference proceedings, new product announcements etc.)

➤ Relevant prior art **not found**:

- ☐ Results verified the lack of relevant prior art (helped determine patentability).
- ☐ Results were not useful in determining patentability or understanding the invention.

Comments:

Drop off or send completed forms to STIC/EIC2100 RND, 4B28



File 347:JAPIO Nov 1976-2005/Jan(Updated 050506)

(c) 2005 JPO & JAPIO

File 350:Derwent WPIX 1963-2005/UD,UM &UP=200530

(c) 2005 Thomson Derwent

Set	Items	Description
S1	259755	(PREDETERMIN? OR PRESET? OR PREESTABLISH? OR PREDEFIN? OR - PREARRANGED OR PRESCRIBED OR (PREVIOUSLY OR PRE) () (DETERMIN? - OR SET???? OR ESTABLISH? OR DEFIN? OR ARRANGED)) (5N) (VALUE? ? OR SCORE? ? OR NUMBER? ? OR NUMERAL? ?)
S2	28318	(DISTANCE? ? OR SIMILARITY) (7N) (VALUE? ? OR SCORE? ? OR NU- MBER? ? OR NUMERAL? ? OR FUNCTION? ?)
S3	3796	S1 AND S2
S4	1429	S3 (5N) (SMALLER OR MINIMAL OR MINIMUM OR LEAST OR LOWEST OR LOWER OR BELOW OR ABOVE OR (LESS OR MORE) () (THEN OR THAN) OR - GREATER OR HIGHER OR LARGER OR BIGGER OR MAXIMUM OR THRESHOLD? ?)
S5	26049	(SUMMARY OR SUMMARIES OR SUMMARIZ? OR SUMMARIS? OR ABSTRAC- T? OR SYNTHES? OR SYNOPSIS?) (5N) (STORY OR STORIES OR ARTICLE? ? OR DOCUMENT? ? OR PRESS()RELEASE? ? OR CONTENT OR INFORMATION OR DATA OR NEWS OR TEXT? ? OR CLIP? ? OR PAGE? ? OR WEBPAGE? ? OR BROADC
S6	5	S4 AND S5
S7	125475	(DIVID? OR SEPARAT? OR PARTITION??? OR GROUP??? OR CLUSTER- ??? OR CATEGORIZ? OR CATEGORIS?) (5N) (STORY OR STORIES OR ARTI- CLE? ? OR DOCUMENT? ? OR PRESS()RELEASE? ? OR CONTENT OR INFO- RMATION OR DATA OR NEWS OR TEXT? ? OR CLIP? ? OR PAGE? ? OR W- EBPAGE? ? OR B
S8	384780	(BUFFER??? OR MEMORY OR RAM OR STACK OR QUEU????) (5N) (STORY OR STORIES OR ARTICLE? ? OR DOCUMENT? ? OR PRESS()RELEASE? ? OR CONTENT OR INFORMATION OR DATA OR NEWS OR TEXT? ? OR CLIP? ? OR PAGE? ? OR WEBPAGE? ? OR BROADCAST? ? OR TELECAST? ?)
S9	4529	S2 (5N) (SMALLER OR MINIMAL OR MINIMUM OR LEAST OR LOWEST OR LOWER OR BELOW OR ABOVE OR (LESS OR MORE) () (THEN OR THAN) OR - GREATER OR HIGHER OR LARGER OR BIGGER OR MAXIMUM OR THRESHOLD? ?)
S10	1123	S3 AND S9
S11	5	S10 AND S5
S12	0	S11 NOT S6
S13	74	S10 AND S7:S8
S14	24	S13 AND IC=G06F
S15	5591	(PREDETERMIN? OR PRESET? OR PREESTABLISH? OR PREDEFIN? OR - PREARRANGED OR PRESCRIBED OR (PREVIOUSLY OR PRE) () (DETERMIN? - OR SET???? OR ESTABLISH? OR DEFIN? OR ARRANGED)) (7N) (BUFFER? ? OR QUEUE? ?)
S16	16	S15 AND S2
S17	6398	(SIMILAR OR ANALAGOUS OR COMPARABLE OR EQUIVALENT) (3W) (STO- RY OR STORIES OR ARTICLE? ? OR DOCUMENT? ? OR PRESS()RELEASE? ? OR CONTENT OR INFORMATION OR DATA OR NEWS OR TEXT? ? OR CLI- P? ? OR PAGE? ? OR WEBPAGE? ? OR BROADCAST? ? OR TELECAST? ?)
S18	271	(DIVID? OR SEPARAT? OR PARTITION??? OR GROUP??? OR CLUSTER- ??? OR CATEGORIZ? OR CATEGORIS?) (7N) S17
S19	6	S18 AND S5
S20	5	S18 AND S2
S21	4	S20 NOT S19
S22	12	S18 AND (S1 OR S15)

19/5/4 (Item 2 from file: 350)
DIALOG(R)File 350:Derwent WPIX
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012413614 **Image available**
WPI Acc No: 1999-219722/199919
XRPX Acc No: N99-162560

Document, e.g. book, paper, report, processing apparatus for producing a new, more readable summary by referring to and utilizing stored past text and group of summary - has summary unit which refers to summary sentence obtained by summary sentence acquisition unit and produces summary sentence of document obtained by document acquisition unit

Patent Assignee: JUST SYSTEM KK (JUST-N)
Number of Countries: 001 Number of Patents: 001
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 11053396	A	19990226	JP 97219301	A	19970729	199919 B

Priority Applications (No Type Date): JP 97219301 A 19970729

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
JP 11053396	A	9	G06F-017/30	

Abstract (Basic): JP 11053396 A

NOVELTY - A summary unit refers to a summary sentence obtained by summary sentence acquisition unit and produces a summary sentence of the document obtained by a document acquisition unit. DETAILED DESCRIPTION - The document obtained by the document acquisition unit is in a predetermined format. A similar - document searching unit searches for the group of the summary of the obtained document, a similar past document, and a document from the database. The summary sentence acquisition unit obtains the summary sentence from the searched document. INDEPENDENT CLAIMS are also included for the following: a memory medium which stores a document processing program; and a document processing method.

USE - For producing a new, more readable summary by referring to and utilizing stored past texts and group of summary.

ADVANTAGE - Has high accuracy and produces a summary which allows easy understanding of the contents of a document. DESCRIPTION OF

DRAWING(S) - The figure is a block diagram showing the structure of the document processing apparatus.

Dwg.1/6

Title Terms: DOCUMENT; BOOK; PAPER; REPORT; PROCESS; APPARATUS; PRODUCE; NEW; MORE; READ; SUMMARY; REFER; STORAGE; PASS; TEXT; GROUP; SUMMARY; SUMMARY; UNIT; REFER; SUMMARY; SENTENCE; OBTAIN; SUMMARY; SENTENCE; ACQUIRE; UNIT; PRODUCE; SUMMARY; SENTENCE; DOCUMENT; OBTAIN; DOCUMENT; ACQUIRE; UNIT

Derwent Class: T01

International Patent Class (Main): G06F-017/30

File Segment: EPI

19/5/5 (Item 3 from file: 350)
DIALOG(R)File 350:Derwent WPIX
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012394513 **Image available**
WPI Acc No: 1999-200620/199917
XRPX Acc No: N99-148448

Document processing apparatus for automatic production of summary to various books, papers and reports - produces summary of documents automatically for every similar document group, grouped by similar document group production unit

Patent Assignee: JUST SYSTEM KK (JUST-N)

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 11045288	A	19990216	JP 97218229	A	19970729	199917 B

Priority Applications (No Type Date): JP 97218229 A 19970729

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
JP 11045288	A		11 G06F-017/30	

Abstract (Basic): JP 11045288 A

NOVELTY - The summary of a document is produced automatically by a summary production unit for every similar document group grouped by similar document group production unit. Similarity between the documents is computed by a similarity calculation unit with several documents of predetermined format acquired by a document acquisition unit. DETAILED DESCRIPTION - INDEPENDENT CLAIMS are included for the following: document processing method; a processing program memory medium

USE - For automatic production of summary to various books, papers and reports.

ADVANTAGE - Unifies summary of every similar group of documents offering convenience to read. DESCRIPTION OF DRAWING(S) - The figure shows block diagram of document processing apparatus.

Dwg.1/11

Title Terms: DOCUMENT; PROCESS; APPARATUS; AUTOMATIC; PRODUCE; SUMMARY; VARIOUS; BOOK; PAPER; REPORT; PRODUCE; SUMMARY; DOCUMENT; AUTOMATIC; SIMILAR; DOCUMENT; GROUP; GROUP; SIMILAR; DOCUMENT; GROUP; PRODUCE; UNIT

Derwent Class: T01

International Patent Class (Main): G06F-017/30

International Patent Class (Additional): G06F-017/27

File Segment: EPI

File 348:EUROPEAN PATENTS 1978-2005/May W02
(c) 2005 European Patent Office
File 349:PCT FULLTEXT 1979-2005/UB=20050512,UT=20050505
(c) 2005 WIPO/Univentio

Set	Items	Description
S1	527215	DISTANCE? ? OR SIMILARITY
S2	23254	S1(5N) (STORY OR STORIES OR ARTICLE? ? OR DOCUMENT? ? OR PRESS()RELEASE? ? OR CONTENT OR INFORMATION OR DATA OR NEWS OR TEXT? ? OR CLIP? ? OR PAGE? ? OR WEBPAGE? ? OR BROADCAST? ? OR TELECAST? ?)
S3	159828	(DIVID? OR SEPARAT? OR PARTITION??? OR GROUP??? OR CLUSTER??? OR CATEGORIZ? OR CATEGORIS?) (5N) (STORY OR STORIES OR ARTICLE? ? OR DOCUMENT? ? OR PRESS()RELEASE? ? OR CONTENT OR INFORMATION OR DATA OR NEWS OR TEXT? ? OR CLIP? ? OR PAGE? ? OR WEBPAGE? ? OR B
S4	155786	(BUFFER??? OR MEMORY OR RAM OR STACK OR QUEUE???) (5N) (STORY OR STORIES OR ARTICLE? ? OR DOCUMENT? ? OR PRESS()RELEASE? ? OR CONTENT OR INFORMATION OR DATA OR NEWS OR TEXT? ? OR CLIP? ? OR PAGE? ? OR WEBPAGE? ? OR BROADCAST? ? OR TELECAST? ?)
S5	38150	S1(5N) (VALUE? ? OR SCORE? ? OR NUMBER? ? OR NUMERAL? ? OR FUNCTION? ?)
S6	6449	S5(5N) (SMALLER OR MINIMAL OR MINIMUM OR LEAST OR LOWEST OR LOWER OR (LESS OR MORE) () (THEN OR THAN) OR GREATER OR HIGHER - OR LARGER OR BIGGER OR MAXIMUM OR THRESHOLD? ?)
S7	74408	(SUMMARY OR SUMMARIES OR SUMMARIZ? OR SUMMARIS? OR ABSTRACT? OR SYNTHES? OR SYNOPSI?) (5N) (STORY OR STORIES OR ARTICLE? ? OR DOCUMENT? ? OR PRESS()RELEASE? ? OR CONTENT OR INFORMATION OR DATA OR NEWS OR TEXT? ? OR CLIP? ? OR PAGE? ? OR WEBPAGE? ? OR BROADCAST
S8	270	S2(50N)S3:S4(50N)S6(50N)S7
S9	111	S8 AND IC=G06F
S10	58	S3:S4(10N)S6
S11	38	S2(50N)S10
S12	37	S11 AND AY=(1970:2002)/PR
S13	2415	(DIVID? OR SEPARAT? OR PARTITION??? OR GROUP??? OR CLUSTER??? OR CATEGORIZ? OR CATEGORIS?) (7N)S5
S14	358	S13(20N)S6
S15	56	S14(100N)S7
S16	52	S15 NOT S10
S17	153516	(PREDETERMIN? OR PRESET? OR PREESTABLISH? OR PREDEFIN? OR PREARRANGED OR PRESCRIBED OR (PREVIOUSLY OR PRE) () (DETERMIN? OR SET???? OR ESTABLISH? OR DEFIN? OR ARRANGED)) (5N) (VALUE? ? OR SCORE? ? OR NUMBER? ? OR NUMERAL? ?)
S18	9586	(DIVID? OR SEPARAT? OR PARTITION??? OR GROUP??? OR CLUSTER??? OR CATEGORIZ? OR CATEGORIS?) (10N)S17
S19	45	S6(50N)S18
S20	37	S19 NOT (S10 OR S16)
S21	960	S6(20N)S17
S22	83	S7(100N)S21
S23	76	S22 NOT (S10 OR S16 OR S20)
S24	25	S23 AND IC=G06F

12/3,K/10 (Item 10 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS
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01118380

METHOD AND SYSTEM FOR RETRIEVING RELEVANT DOCUMENTS FROM A DATABASE
METHODE UND VERFAHREN UM RELEVANTE DOKUMENTE IN EINER DATENBANK ZU FINDEN
PROCEDE ET SYSTEME POUR L'EXTRACTION DE DOCUMENTS PERTINENTS D'UNE BASE DE
DONNEES

PATENT ASSIGNEE:

KCSL, Inc., (2910941), Suite 1012, 5160 Yonge Street, Toronto, Ontario
M2N 6L9, (CA), (Proprietor designated states: all)

INVENTOR:

KAUFMAN, Ilia, 18 Brandy Court, Toronto, Ontario M3B 3L3, (CA)

LEGAL REPRESENTATIVE:

Boyce, Conor et al (74271), F. R. Kelly & Co., 27 Clyde Road, Ballsbridge
, Dublin 4, (IE)

PATENT (CC, No, Kind, Date): EP 1086432 A1 010328 (Basic)

EP 1086432 B1 040407

WO 1999064964 991216

APPLICATION (CC, No, Date): EP 99924619 990607; WO 99CA531 990607

PRIORITY (CC, No, Date): US 88483 P 980608

DESIGNATED STATES: AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI;
LU; MC; NL; PT; SE

INTERNATIONAL PATENT CLASS: G06F-017/30

NOTE:

No A-document published by EPO

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS B	(English)	200415	779
CLAIMS B	(German)	200415	731
CLAIMS B	(French)	200415	857
SPEC B	(English)	200415	6447
Total word count - document A			0
Total word count - document B			8814
Total word count - documents A + B			8814

...SPECIFICATION method of the invention takes into account the
distribution of query-words in a document, a candidate document will
receive a higher similarity score when the document includes a
large concentration, or clustering, of query-words. This renders the
method of the invention relatively immune to isolated and sporadic
occurrences...

12/3,K/12 (Item 12 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS
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00781211

MULTI-LAYER INFORMATION STORAGE SYSTEM
MEHRSCHICHTINFORMATIONSSPEICHERSYSTEM
SYSTEME MULTICOUCHE DE STOCKAGE D'INFORMATION

PATENT ASSIGNEE:

Koninklijke Philips Electronics N.V., (1489041), Groenewoudseweg 1, 5621
BA Eindhoven, NL\ (Proprietor designated states: , AT; BE; DE; FR; GB;
IT; SE)

PHILIPS NORDEN AB, (221813), Kottbygatan 5, Kista, 164 85 Stockholm,
SE\ (Proprietor designated states: , SE)

INVENTOR:

COOPS, Peter, Groenewoudseweg 1, NL-5621 BA Eindhoven, (NL)

HEEMSKERK, Jacobus, Petrus, Josephus, Groenewoudseweg 1, NL-5621 BA
Eindhoven, (NL)

VISSER, Derk, Groenewoudseweg 1, NL-5621 BA Eindhoven, (NL)

HOLTSLAG, Antonius, Hendricus, Maria, Groenewoudseweg 1, NL-5621 BA
Eindhoven, (NL)
LEGAL REPRESENTATIVE:

Visser, Derk et al (75441), Philips Intellectual Property & Standards
P.O. Box 220, 5600 AE Eindhoven, (NL)

PATENT (CC, No, Kind, Date): EP 729629 A1 960904 (Basic)
EP 729629 B1 031105
WO 96006427 960229

APPLICATION (CC, No, Date): EP 95927046 950816; WO 95IB648 950816

PRIORITY (CC, No, Date): EP 94202416 940823; US 299861 940901

DESIGNATED STATES: AT; BE; DE; FR; GB; IT; SE

INTERNATIONAL PATENT CLASS: G11B-007/00

NOTE:

No A-document published by EPO
LANGUAGE (Publication, Procedural, Application): English; English; English
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS B	(English)	200345	591
CLAIMS B	(German)	200345	488
CLAIMS B	(French)	200345	663
SPEC B	(English)	200345	6544
Total word count - document A			0
Total word count - document B			8286
Total word count - documents A + B			8286

...SPECIFICATION layers with a single spherical aberration compensation may be advantageously combined with the feature of the minimum distance of the information layers. A decrease of the minimum distance increases the number of information layers that fit in a stack of a certain thickness. Hence, such a decrease increases the information density of the record carrier and...

12/3,K/13 (Item 13 from file: 348)
DIALOG(R) File 348:EUROPEAN PATENTS
(c) 2005 European Patent Office. All rts. reserv.

00772993

Method of identifying similarities in code segments
Verfahren zur Identifizierung von Gleichartigkeiten zwischen Codesegmenten
Methode d'identification de similitudes entre des segments de code

PATENT ASSIGNEE:

AT&T Corp., (589370), 32 Avenue of the Americas, New York, NY 10013-2412,
(US), (applicant designated states: DE;FR;GB)

INVENTOR:

Goodnow II, James E., 12477 Old Mine Road, Grass Valley, California 95945
(US)

Helfman, Jonathan I., 151 Riverview Avenue, Gillette, New Jersey 07933,
(US)

Kowalski, Thaddeus J., 73 Stoneridge Road, Summit, New Jersey 07901, (US)

Puttress, John J., 75 Elkwood Avenue, New Providence, New Jersey 07974,
(US)

Rowland, James R., 18 Thackeray Drive, Short Hills, New Jersey 07078,
(US)

Seaquist, Carl R., 1154 Terrace Acres Drive, Auburn, Alabama 36830, (US)

LEGAL REPRESENTATIVE:

Buckley, Christopher Simon Thirsk et al (28912), Lucent Technologies, 5
Mornington Road, Woodford Green, Essex IG8 0TU, (GB)

PATENT (CC, No, Kind, Date): EP 723224 A1 960724 (Basic)

APPLICATION (CC, No, Date): EP 96300183 960110;

PRIORITY (CC, No, Date): US 373342 950117

DESIGNATED STATES: DE; FR; GB

INTERNATIONAL PATENT CLASS: G06F-011/00;

ABSTRACT WORD COUNT: 151

LANGUAGE (Publication,Procedural,Application): English; English; English
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	EPAB96	672
SPEC A	(English)	EPAB96	4076
Total word count - document A			4748
Total word count - document B			0
Total word count - documents A + B			4748

...SPECIFICATION applied. The intensity of block 330 represents the data values. Illustratively, the darker the block 330, the larger the data value.

A separate distance function $O(\text{sub}(D))$ is used to compute similarity measurements between pairs of operators from different functions as...

12/3,K/14 (Item 14 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS
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00684901

Analyzing an image to obtain a stable number of groups
Bildanalyse zur Ermittlung einer stabilen Anzahl von Gruppen
Analyse d'image afin d'obtenir un nombre de groupes stable
PATENT ASSIGNEE:

XEROX CORPORATION, (219783), Xerox Square, Rochester, New York 14644,
(US), (Proprietor designated states: all)

INVENTOR:

Mahoney, James V., 1245 Kearny Street, Apt.2B, San Francisco, CA 94133,
(US)

Rao, Satyajit, 550 Memorial Drive, Apt. 17A2, Cambridge, MA 02139, (US)

LEGAL REPRESENTATIVE:

Grunecker, Kinkeldey, Stockmair & Schwanhausser Anwaltssozietat (100721)
, Maximilianstrasse 58, 80538 Munchen, (DE)

PATENT (CC, No, Kind, Date): EP 654752 A2 950524 (Basic)
EP 654752 A3 951206
EP 654752 B1 020313

APPLICATION (CC, No, Date): EP 94308655 941123;

PRIORITY (CC, No, Date): US 158053 931124

DESIGNATED STATES: DE; FR; GB

INTERNATIONAL PATENT CLASS: G06K-009/20

ABSTRACT WORD COUNT: 246

NOTE:

Figure number on first page: 1

LANGUAGE (Publication,Procedural,Application): English; English; English
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	EPAB95	1943
CLAIMS B	(English)	200211	2650
CLAIMS B	(German)	200211	2712
CLAIMS B	(French)	200211	3056
SPEC A	(English)	EPAB95	12837
SPEC B	(English)	200211	13069
Total word count - document A			14782
Total word count - document B			21487
Total word count - documents A + B			36269

...SPECIFICATION Fig. 4 finds a threshold that produces a stable number of groups by iteratively applying thresholds to **distances data**, with each iteration incrementing the threshold. The approach of Fig. 5 finds a threshold that produces a stable number of groups by iteratively applying thresholds to the **distances data**, with each iteration increasing the threshold by a difference between distances. The approach of Fig. 6 finds

a **threshold** that produces a stable number of **groups** by using **distances data** to obtain differences between **distances** that occur, and by then using the largest of the differences to obtain a **threshold**.

In Fig...types of grouping. The act in box 356 uses the values from box 352 to obtain a **threshold** that would produce thresholded **distance data** defining a number of **groups**. The number of groups is stable across a larger range of thresholds than another number of groups...

...Fig. 11.

The act in box 356 uses the data image from box 350 to obtain a **distances data** image in which each pixel is labeled with a distance to a near neighbor; in the data...

...SPECIFICATION Fig. 4 finds a **threshold** that produces a stable number of groups by iteratively applying thresholds to **distances data**, with each iteration incrementing the threshold. The approach of Fig. 5 finds a **threshold** that produces a stable number of groups by iteratively applying thresholds to the **distances data**, with each iteration increasing the threshold by a difference between distances. The approach of Fig. 6 finds a **threshold** that produces a stable number of **groups** by using **distances data** to obtain differences between **distances** that occur, and by then using the largest of the differences to obtain a **threshold**.

In Fig...types of grouping. The act in box 356 uses the values from box 352 to obtain a **threshold** that would produce thresholded **distance data** defining a number of **groups**. The number of groups is stable across a larger range of thresholds than another number of groups...

...Fig. 11.

The act in box 356 uses the data image from box 350 to obtain a **distances data** image in which each pixel is labeled with a distance to a near neighbor, in the data...

...CLAIMS meet a foreground neighbor border criterion, a distance to a near neighbor in the initial array; the **distance data** indicating a distance to a near neighbor for each value item in the initial array; the act of using the threshold data to obtain grouping **data** further comprising:

grouping value items together that have **distances** that are below the **threshold**, or grouping value items together that have **distances** that are above the **threshold**, or in which the gap data indicate, for value items in the initial array that meet an...

...neighbor border criterion, a distance to a near neighbor in the complement of the initial array; the **distance data** indicating a distance to a near neighbor in the complement of the initial array for each value item in the initial array; the act of using the threshold data to obtain grouping **data** further comprising: grouping value items together that have **distances** that are above the **threshold**.

12. A method of operating a machine that includes:

a processor (66) connected for accessing a memory...

...CLAIMS to 5 in which the gap data indicate, for each value item in the initial array, a **distance**; the threshold **data** indicating a threshold gap value; the act of using the threshold **data** to obtain grouping **data** comprising: comparing (274) the **threshold gap value** with each (262, 270, 272) **distance** indicated by the gap **data**.

7. The method of one of claims 1 to 6 in which the reference criterion requires a...meet a foreground neighbor border criterion, a distance to a near neighbor in the initial array; the **distance data** indicating a distance to a near neighbor for each value item in the initial array; the act of using the threshold data to obtain grouping **data** further comprising:

grouping value items together that have **distances** that are below

the threshold or
grouping value items together that have distances that are above the
threshold or in which the gap data indicate, for value items in the
initial array that meet an initial array; the distance data
indicating a distance to a near neighbor in the complement of the
initial array for each value item in the initial array; the act of
using the threshold data to obtain grouping data further
comprising:
grouping value items together that have distances that are above
the threshold .
22. A machine comprising:
memory (68; 192, 194; 520, 540) for storing data; and
a processor (66...

12/3,K/16 (Item 16 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS
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00488004

Apparatus and method for determining and displaying the difference between
two technical drawings

Gerat und Verfahren zur Ermittlung und Darstellung von Unterschieden
zwischen zwei technischen Zeichnungen

Dispositif et procede pour la determination et la presentation des
différences entre deux schemas techniques

PATENT ASSIGNEE:

KABUSHIKI KAISHA TOSHIBA, (213130), 72, Horikawa-cho, Saiwai-ku,
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LEGAL REPRESENTATIVE:

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PATENT (CC, No, Kind, Date): EP 478315 A2 920401 (Basic)
EP 478315 A3 930609
EP 478315 B1 960814

APPLICATION (CC, No, Date): EP 91308758 910925;

PRIORITY (CC, No, Date): JP 90255074 900927

DESIGNATED STATES: DE; FR; GB

INTERNATIONAL PATENT CLASS: G06F-017/30;

ABSTRACT WORD COUNT: 186

LANGUAGE (Publication,Procedural,Application): English; English; English
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS B	(English)	EPAB96	1501
CLAIMS B	(German)	EPAB96	1259

CLAIMS B	(French)	EPAB96	1833
SPEC B	(English)	EPAB96	4568
Total word count	- document A		0
Total word count	- document B		9161
Total word count	- documents A + B		9161

...SPECIFICATION correspondence analysis section of the apparatus of Figure 3;

Figure 10 shows a matrix for determining a maximum similarity value in the logical information memory section of the apparatus of Figure 3;

Figure 11A and 11B show an example of a node...

12/3,K/25 (Item 2 from file: 349)
 DIALOG(R)File 349:PCT FULLTEXT
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01083293 **Image available**

**METHOD AND APPARATUS FOR CLASSIFICATION OF A DATA OBJECT IN A DATABASE
 PROCEDE ET APPAREIL DE CLASSIFICATION D'UN OBJET DE DONNEES DANS UNE BASE
 DE DONNEES**

Patent Applicant/Assignee:

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 Eindhoven, NL, NL (Residence), NL (Nationality), (For all designated
 states except: US)

Patent Applicant/Inventor:

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 (Residence), NL (Nationality), (Designated only for: US)

Legal Representative:

GROENENDAAL Antonius W M (agent), Philips Intellectual Property &
 Standards, Prof. Holstlaan 6, NL-5656 AA Eindhoven, NL,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200406128 A2-A3 20040115 (WO 0406128)
 Application: WO 2003IB2911 20030627 (PCT/WO IB03002911)
 Priority Application: EP 200277765 20020709

Designated States:

(Protection type is "patent" unless otherwise stated - for applications
 prior to 2004)

AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ
 EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR
 LS LT LU LV MA MD MG MK MN MW MX MZ NI NO NZ OM PG PH PL PT RO RU SC SD
 SE SG SK SL TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW
 (EP) AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LU MC NL PT RO SE
 SI SK TR
 (OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG
 (AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW
 (EA) AM AZ BY KG KZ MD RU TJ TM

Publication Language: English

Filing Language: English

Fulltext Word Count: 4591

Fulltext Availability:

Detailed Description

Detailed Description

... have multiple classification parameters associated with them. In that
 case, a data object is sorted in multiple groups .

When the data objects have been grouped per equal value of at least
 one

classification parameter, similarity of data objects with equal
 values of the classification parameter is identified in a process step
 404. The process step 404 comprises two...

12/3,K/26 (Item 3 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT
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01022586 **Image available**

INFORMATION RESOURCE TAXONOMY

TAXINOMIE DE RESSOURCES D'INFORMATIONS

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Legal Representative:

DAVIES COLLISON CAVE (agent), WEBBER, David, Brian, PRYOR, Geoffrey,
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3000, AU,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200352627 A1 20030626 (WO 0352627)

Application: WO 2002AU1719 20021218 (PCT/WO AU0201719)

Priority Application: AU 20019589 20011218

Designated States:

(Protection type is "patent" unless otherwise stated - for applications
prior to 2004)

AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ
EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR
LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SC SD SE SG
SK SL TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

(EP) AT BE BG CH CY CZ DE DK EE ES FI FR GB GR IE IT LU MC NL PT SE SI SK
TR

(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG

(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW

(EA) AM AZ BY KG KZ MD RU TJ TM

Publication Language: English

Filing Language: English

Fulltext Word Count: 4012

Fulltext Availability:

Detailed Description

Detailed Description

... numeric similarity measure is then determined as a fimction of any two
word vectors to determine the similarity of any two documents . For
example, a new cluster can be formed by two documents if their
similarity falls within a threshold similarity value for
clustering. Once formed, a cluster is characterised ...measure used is
the cosine similarity fimction, described in the TACT specification. The
clustering process uses this similarity measure to group similar
documents into clusters by assigning each document to the most
similar cluster . An optimal similarity threshold value for
creating clusters from a given document set is determined by creating
different groupings of the documents at different thresholds and then
evaluating these...this effect. In the first process, the coherence of
the clusters is maintained as the number of documents n increases by
reducing the similarity threshold with increasing n. In the second
process, a new random sample better representing the population is...

...the optimality of the existing clusters and/or as a means for

determining a new quasi-optimal similarity threshold value for subsequent re-clustering of the document space to improve accuracy.

To reduce the time required by the search for an optimal or quasi...

12/3,K/27 (Item 4 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT
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00969552 **Image available**

AUTOMATIC NATURAL CONTENT DETECTION IN VIDEO INFORMATION
DETECTION AUTOMATIQUE D'UN CONTENU NATUREL EN INFORMATION VIDEO

Patent Applicant/Assignee:

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only for: US)

CARRAI Paola, Internationaal Octrooibureau B.V., Prof . Holstlaan 6,
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only for: US)

FERRETTI Giulio, Internationaal Octrooibureau B.V., Prof . Holstlaan 6,
NL-5656 AA Eindhoven, NL, NL (Residence), IT (Nationality), (Designated
only for: US)

Legal Representative:

GROENENDAAL Antonius W M (agent), Internationaal Octrooibureau B.V.,
Prof. Holstlaan 6, NL-5656 AA Eindhoven, NL,

Patent and Priority Information (Country, Number, Date):

Patent: WO 2002103617 A1 20021227 (WO 02103617)

Application: WO 2002IB2279 20020614 (PCT/WO IB0202279)

Priority Application: EP 2001202279 20010615

Designated States:

(Protection type is "patent" unless otherwise stated - for applications
prior to 2004)

AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ
EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR
LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SD SE SG SI
SK SL TJ TM TN TR TT TZ UA UG US UZ VN YU ZA ZM ZW

(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR

(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG

(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW

(EA) AM AZ BY KG KZ MD RU TJ TM

Publication Language: English

Filing Language: English

Fulltext Word Count: 4232

Fulltext Availability:

Claims

Claim

... probability function for each line from said
determined distances;
means for classifying a line as containing natural content if the
distance probability function has a maximum below a predetermined
distance value ; and means for grouping together neighboring lines
containing natural content to create clusters of natural content .

12/3,K/29 (Item 6 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT
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00871879 **Image available**

**METHOD AND APPARATUS FOR ORDERING ELECTRONIC DATA
PROCEDE ET APPAREIL D'ORDONNANCEMENT DE DONNEES ELECTRONIQUES**

Patent Applicant/Assignee:

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Patent Applicant/Inventor:

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(Nationality), (Designated only for: US)

Legal Representative:

BOEHMERT & BOEHMERT (agent), Schohe, Stefan, Hollerallee 32, 28209 Bremen
, DE,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200205084 A2-A3 20020117 (WO 0205084)

Application: WO 2001EP7801 20010706 (PCT/WO EP0107801)

Priority Application: EP 2000114636 20000707; EP 2000115867 20000724; EP
2000125503 20001121

Designated States:

(Protection type is "patent" unless otherwise stated - for applications
prior to 2004)

AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ
EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS
LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL TJ
TM TR TT TZ UA UG US UZ VN YU ZA ZW

(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR

(OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG

(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW

(EA) AM AZ BY KG KZ MD RU TJ TM

Publication Language: English

Filing Language: English

Fulltext Word Count: 14772

Fulltext Availability:

Detailed Description

Detailed Description

... applied to this limiting value. Such aggregate functions especially
comprise the mean pairw(inverted exclamation mark)se distance of the
data set to all other data sets in the cluster which may be the
arithmetic mean distance, the...

...distance defined in another way. A ftu-ther example of such an aggregate
function is a median distance of a data set to all other data sets,
Le. the distance separating the lower 50% of the distance values
from the re.

maining 50%, the latter lying above this value. One may also think of
generalising...

12/3,K/32 (Item 9 from file: 349)

DIALOG(R)File 349:PCT FULLTEXT

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00571520 **Image available**

**METHOD OF AND APPARATUS FOR IDENTIFYING SUBSETS OF INTERRELATED IMAGE
OBJECTS FROM A SET OF IMAGE OBJECTS**

**PROCEDE ET APPAREIL SERVANT A IDENTIFIER DES SOUS-ENSEMBLES D'OBJETS
D'IMAGES INTERRELIES DANS UN ENSEMBLE D'OBJETS D'IMAGES**

Patent Applicant/Assignee:

INTERNATIONAL BUSINESS MACHINES CORPORATION,
IBM UNITED KINGDOM LIMITED,

Inventor(s):

YAUNG Alan Tsu-I,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200034893 A1 20000615 (WO 0034893)
Application: WO 99GB4105 19991207 (PCT/WO GB9904105)
Priority Application: US 98208722 19981209

Designated States:

(Protection type is "patent" unless otherwise stated - for applications prior to 2004)

AE AL AM AT AU AZ BA BB BG BR BY CA CH CN CR CU CZ DE DK DM EE ES FI GB
GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD
MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT UA UG UZ
VN YU ZA ZW GH GM KE LS MW SD SL SZ TZ UG ZW AM AZ BY KG KZ MD RU TJ TM
AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE BF BJ CF CG CI CM
GA GN GW ML MR NE SN TD TG

Publication Language: English

Fulltext Word Count: 7600

Fulltext Availability:

Detailed Description

Detailed Description

... 322. Data comparator 320 has a first data input to receive a plurality of similarity values from similarity matrix 310 and a second data input to receive threshold criteria data 312. Data comparator 320 is executable to compare each of the plurality of similarity values of similarity matrix 310 with threshold criteria data 312, preferably as described below.

Cluster assignor 322 is executable to generate cluster data 314 in connection with data comparator 320. Cluster data...

24/3,K/1 (Item 1 from file: 348)
DIALOG(R) File 348:EUROPEAN PATENTS
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01885276

Systems and methods for performing electronic information retrieval
Elektronische Systemen und Verfahren um Informationswiederauffindung
durchzufuhren

Systemes et methodes electroniques permettant la recherche d'informations
PATENT ASSIGNEE:

Xerox Corporation, (219004), Patent Department, Xerox Square - 20 A, 100
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designated States: all)

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Dance, Christopher R. Les Hameaux Des Glezy, Apt. C03 136 Route Des
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PATENT (CC, No, Kind, Date): EP 1524610 A2 050420 (Basic)

APPLICATION (CC, No, Date): EP 2004024558 041014;

PRIORITY (CC, No, Date): US 605630 031015; US 605631 031015

DESIGNATED STATES: AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES; FI; FR; GB; GR;
HU; IE; IT; LI; LU; MC; NL; PL; PT; RO; SE; SI; SK; TR

EXTENDED DESIGNATED STATES: AL; HR; LT; LV; MK

INTERNATIONAL PATENT CLASS: G06F-017/30

ABSTRACT WORD COUNT: 281

NOTE:

Figure number on first page: 1

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200516	803
SPEC A	(English)	200516	9922
Total word count - document A			10725
Total word count - document B			0
Total word count - documents A + B			10725

INTERNATIONAL PATENT CLASS: G06F-017/30

...SPECIFICATION and pre-processed descriptions. Such a system would
advantageously operate using either hardcopy or electronic forms of
documents as input.

SUMMARY OF INVENTION

In accordance with one aspect of the invention there is provided a
method, system and...

...the keywords in a multilingual document that are translated and keywords
identified in OCRed images of electronic documents ; (f) are adapted to
summarize search results.

BRIEF DESCRIPTION OF DRAWINGS

These and other aspects of the invention will become apparent from...
the results are excessive (i.e., over a predefined limit) or are
insufficient (i.e., under a predefined number) that have distance
measurements within the preset threshold value , then act 416 is
performed; otherwise, act 418 is performed.

At 416, if there exists more than...

...electronic document, and is adapted to return a set of documents
(including their locations (e.g., URLs), summaries , text content ,
applied services) that includes documents similar (i.e., matches,

revisions, relations) to the input document and also...

24/3,K/2 (Item 2 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS
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01868586

Using semantic feature structures for document comparisons
Vergleich von Dokumenten unter Verwendung semantischer Strukturen
Comparaison de documents utilisant des structures de caractéristique
semantiques

PATENT ASSIGNEE:

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Cheshire CW12 1DY, (GB), (Applicant designated States: all)

INVENTOR:

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PATENT (CC, No, Kind, Date): EP 1515241 A2 050316 (Basic)

APPLICATION (CC, No, Date): EP 2004019257 040813;

PRIORITY (CC, No, Date): US 662270 030915

DESIGNATED STATES: AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES; FI; FR; GB; GR;
HU; IE; IT; LI; LU; MC; NL; PL; PT; RO; SE; SI; SK; TR

EXTENDED DESIGNATED STATES: AL; HR; LT; LV; MK

INTERNATIONAL PATENT CLASS: G06F-017/30

ABSTRACT WORD COUNT: 132

NOTE:

Figure number on first page: 3

LANGUAGE (Publication,Procedural,Application): English; English; English
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200511	810
SPEC A	(English)	200511	4673
Total word count - document A			5483
Total word count - document B			0
Total word count - documents A + B			5483

INTERNATIONAL PATENT CLASS: G06F-017/30

...SPECIFICATION security and efficiency objectives of a corporate entity.
What is needed is an effective means of providing document comparison
and/or recognition.

SUMMARY OF THE INVENTION

Semantic comparisons of computer readable textual items are achieved
using a rules base that...

...point. When there are no more common points to be scored, the final
scoring is determined. A threshold value of similarity may be
predetermined, so that all textual items that exceed the similarity
threshold will be classified as "the same," which...

24/3,K/6 (Item 6 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS
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01778597

Intelligent video information management system
Intelligentes System zur Verwaltung von Videoinformationen
Systeme intelligent de gestion d'informations video
PATENT ASSIGNEE:

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INVENTOR:
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 Winter, Gerhard Josef, 7408 Park Village Road, San Diego, CA 92129, (US)
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 Nguyen, William Thanh, 10642 Mallard Drive, Garden Grove, CA 92843-3324, (US)
 Lin-Liu, Sen, 13005 Brixton Place, San Diego, CA 92130-1325, (US)
 Nguyen, Lyn, 7422 Mason Heights Lane, San Diego, CA 92126, (US)

LEGAL REPRESENTATIVE:
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PATENT (CC, No, Kind, Date): EP 1450275 A2 040825 (Basic)
 EP 1450275 A2 040825

APPLICATION (CC, No, Date): EP 2004004123 971001;
 PRIORITY (CC, No, Date): US 742017 961031; US 741715 961031; US 740628 961031; US 741982 961031; US 741914 961031; US 741983 961031; US 729620 961031; US 740651 961031; US 742015 961031; US 741650 961031; US 740627 961031

DESIGNATED STATES: DE; FR; GB; SE
 RELATED PARENT NUMBER(S) - PN (AN):
 EP 1010315 (EP 97910786)

INTERNATIONAL PATENT CLASS: G06F-017/30
 ABSTRACT WORD COUNT: 100

NOTE:
 Figure number on first page: NONE

LANGUAGE (Publication,Procedural,Application): English; English; English
 FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200435	2183
SPEC A	(English)	200435	75079
Total word count - document A			77262
Total word count - document B			0
Total word count - documents A + B			77262

INTERNATIONAL PATENT CLASS: G06F-017/30

...SPECIFICATION to tailor the system to particular applications.
 There have been proposed many techniques for filtering video image data in order to detect significant features of the image represented by the image data. Writings in this...degree of similarity between the data block and the corresponding block of the preceding frame, comparing the similarity metric with a predetermined threshold value, selecting, on the basis of the comparison of the similarity metric with the threshold value, one of a first mode for generating and coding values for the data block and a second...

24/3,K/9 (Item 9 from file: 348)
 DIALOG(R) File 348:EUROPEAN PATENTS
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01453570
 Play list generation device, audio information provision device, system, method, program and recording medium
 Gerat zur Erstellung von Abspiellisten sowie ein Gerat, ein System, ein Verfahren, ein Programm und ein Aufnahmemedium fur die Bereitstellung von Audioinformationen
 Dispositif pour la generation de listes d'ecoute et dispositif, systeme, procede, programme et support d'enregistrement pour la provision d'informations audio
 PATENT ASSIGNEE:

MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD., (216883), 1006, Oaza-Kadoma,
Kadoma-shi, Osaka 571-8501, (JP), (Applicant designated States: all)
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Tagawa, Junichi, 46-4-302, Yamadaikehigashimachi, Hirakata-shi, Osaka
573-0165, (JP)
Misaki, Masayuki, 1-4-128-903, Koyochonaka, Higashinada-ku, Kobe-shi,
Hyogo 658-0032, (JP)
LEGAL REPRESENTATIVE:
Balsters, Robert et al (83702), Novagraaf SA 25, Avenue du Pailly, 1220
Les Avanchets - Geneva, (CH)
PATENT (CC, No, Kind, Date): EP 1244033 A2 020925 (Basic)
EP 1244033 A3 040901
EP 1244033 A3 040901
APPLICATION (CC, No, Date): EP 2002006524 020319;
PRIORITY (CC, No, Date): JP 200179914 010321
DESIGNATED STATES: AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI;
LU; MC; NL; PT; SE; TR
EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI
INTERNATIONAL PATENT CLASS: G06F-017/30
ABSTRACT WORD COUNT: 141
NOTE:
Figure number on first page: 1

LANGUAGE (Publication,Procedural,Application): English; English; English
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200239	2134
SPEC A	(English)	200239	13153
Total word count - document A			15287
Total word count - document B			0
Total word count - documents A + B			15287

INTERNATIONAL PATENT CLASS: G06F-017/30

...SPECIFICATION at least one audio information stream corresponding to at least one related information stream having a coordinate value within a prescribed range from a reference coordinate value which is obtained based on the plurality of coordinate values, based on a distance between the coordinate value included in the at least one related information stream and the reference coordinate value.
In one embodiment of the invention, the condition...

...at least one audio information stream corresponding to at least one related information stream having a coordinate value within a prescribed range from a reference coordinate value which is obtained based on the plurality of coordinate values, based on a distance between the coordinate value included in the at least one related information stream and the reference coordinate value.
In one embodiment of the invention, the step...The audio information streams stored in the audio information database 40 are each provided with an audio information stream number. An index abstract, or the like of the contents of each audio information stream may also be stored as a...

24/3,K/10 (Item 10 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS
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01355379
Information retrieval system
System zum Wiederauffinden von Informationen
Systeme de recouvrement d'information
PATENT ASSIGNEE:

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PATENT (CC, No, Kind, Date): EP 1156430 A2 011121 (Basic)
APPLICATION (CC, No, Date): EP 2001111883 010516;
PRIORITY (CC, No, Date): JP 2000145168 000517
DESIGNATED STATES: AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI;
LU; MC; NL; PT; SE; TR
EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI
INTERNATIONAL PATENT CLASS: G06F-017/30
ABSTRACT WORD COUNT: 135
NOTE:

Figure number on first page: 1

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200147	1340
SPEC A	(English)	200147	6461
Total word count - document A			7801
Total word count - document B			0
Total word count - documents A + B			7801

INTERNATIONAL PATENT CLASS: G06F-017/30

...SPECIFICATION required to check whether or not like information already exists in the collection. This is burdensome to information providers.

SUMMARY OF THE INVENTION

An object of the present invention is providing an information retrieval system capable of...if the highest one of the similarity values Ek obtained in step S609 is equal to or more than a predetermined value, the similarity operation section 32 determines that there is the answer similar to the answer A input by the...

24/3,K/11 (Item 11 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS
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01310940

Method and apparatus for retrieving and delivering documents, and recording media storing a program therefor
System und Gerat zum Wiederauffinden und Zustellen von Dokumenten und Speichermedium mit entsprechendem Program
Systeme et appareil de recouvrement et de distribution de donnees et support d'enregistrement avec un programme dans ce but

PATENT ASSIGNEE:

Hitachi, Ltd., (204151), 6, Kanda Surugadai 4-chome, Chiyoda-ku, Tokyo 101-8010, (JP), (Applicant designated States: all)

INVENTOR:

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Tada, Katsumi, Hitachi, Ltd., Intell. Prop. Gr., New Marunouchi Bldg.,

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Okamoto, Takuya, Hitachi, Ltd., Intell. Prop. Gr., New Marunouchi Bldg.,
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Sugaya, Natsuko, Hitachi, Ltd., Intell. Prop. Gr., New Marunouchi Bldg.,
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Ushiroji, Yousuke, Hitachi, Ltd., Intell. Prop. Gr., New Marunouchi Bldg.,
5-1, Marunouchi 1-chome, Chiyoda-ku, Tokyo 100-8220, (JP)

LEGAL REPRESENTATIVE:

Strehl Schubel-Hopf & Partner (100941), Maximilianstrasse 54, 80538
Munchen, (DE)

PATENT (CC, No, Kind, Date): EP 1122651 A2 010808 (Basic)
EP 1122651 A3 040114

APPLICATION (CC, No, Date): EP 2000104382 000302;

PRIORITY (CC, No, Date): JP 200032625 000203

DESIGNATED STATES: DE; FR; GB

EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI

INTERNATIONAL PATENT CLASS: G06F-017/30

ABSTRACT WORD COUNT: 61

NOTE:

Figure number on first page: 1

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200132	1668
SPEC A	(English)	200132	15443
Total word count - document A			17111
Total word count - document B			0
Total word count - documents A + B			17111

INTERNATIONAL PATENT CLASS: G06F-017/30

...SPECIFICATION document retrieving and delivering system of prior art 1.
This leads to a problem that the statistic **information** cannot be easily
obtained.

SUMMARY OF THE INVENTION

It is therefore an object of the present invention to provide a system
in...of similarity for users 2 and 3 are obtained as 0 and 6.6,
respectively.

When the **similarity** exceeds a **predetermined delivery threshold**
value, the text is delivered to the user associated with the pertinent
retrieval condition. Since the threshold value...than the delivery
threshold value are additionally delivered in the similarity descending
order. Resultantly, even when the **number** of texts of which **similarity**
exceeds the delivery **threshold value** set by the user is **less than**
that of texts desired by the user, a **predetermined number** of texts
can be additionally delivered to the user. Therefore, when no text is
delivered to the...

24/3,K/12 (Item 12 from file: 348)
DIALOG(R) File 348:EUROPEAN PATENTS
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00875924

Document search system

Dokumentsuchsystem

Systeme de recherche de documents

PATENT ASSIGNEE:

INTERNATIONAL BUSINESS MACHINES CORPORATION, (200123), , Armonk, NY
10504, (US), (applicant designated states: DE;FR;GB)

INVENTOR:

Kubota, Rie, 1623-14, Shimotsuruma, Yamato-shi, Kanagawa-ken, (JP)

LEGAL REPRESENTATIVE:

Davies, Simon Robert (75451), I B M UK Intellectual Property Department
Hursley Park, Winchester, Hampshire SO21 2JN, (GB)
PATENT (CC, No, Kind, Date): EP 802492 A1 971022 (Basic)
APPLICATION (CC, No, Date): EP 97302600 970416;
PRIORITY (CC, No, Date): JP 9695691 960417
DESIGNATED STATES: DE; FR; GB
INTERNATIONAL PATENT CLASS: G06F-017/30
ABSTRACT WORD COUNT: 175

LANGUAGE (Publication,Procedural,Application): English; English; English
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	9710W3	1159
SPEC A	(English)	9710W3	20406
Total word count - document A			21565
Total word count - document B			0
Total word count - documents A + B			21565

INTERNATIONAL PATENT CLASS: G06F-017/30

...SPECIFICATION by storing delimiter patterns and their position
information for the end of title and the end of abstract .
* Search for document with strong association between plurality of
character strings
It would be a common demand to perform search...line(s) in applicable
document(s) may display all character strings with the input similarity
factor or higher together with their similarity factor, document
numbers , position numbers in document and the like, or simply display
only predetermined numerals . The order of display may be the sequence
of appearance in the document(s) or in the...

24/3,K/15 (Item 2 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT
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01064166 **Image available**

INTER-TERM RELEVANCE ANALYSIS FOR LARGE LIBRARIES
ANALYSE DE PERTINENCE INTER-TERMES POUR BIBLIOTHEQUES DE GRANDE DIMENSION
Patent Applicant/Assignee:

X-MINE INC, 1000 Marina Boulevard, Suite 450, Brisbane, CA 94005, US, US
(Residence), US (Nationality)

Inventor(s):

RAY Sandip, 772 20th Avenue, San Francisco, CA 94121, US,
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FRANKS Kasian, 7400 Redwood Boulevard, Apartment 202, Novato, CA 94945,
US,

Legal Representative:

IVEY James D (agent), LAW OFFICES of JAMES D. IVEY, 3025 Totterdell
Street, Oakland, CA 94611-1742, US,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200394054 A2 20031113 (WO 0394054)
Application: WO 2003US13445 20030429 (PCT/WO US0313445)
Priority Application: US 2002135194 20020429

Designated States:

(Protection type is "patent" unless otherwise stated - for applications
prior to 2004)

AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ
EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR
LS LT LU LV MA MD MG MK MN MW MX MZ NI NO NZ OM PH PL PT RO RU SC SD SE
SG SK SL TJ TM TN TR TZ UA UG UZ VC VN YU ZA ZM ZW
(EP) AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LU MC NL PT RO SE
SI SK TR
(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG
(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW

(EA) AM AZ BY KG KZ MD RU TJ TM
Publication Language: English
Filing Language: English
Fulltext Word Count: 3805

Main International Patent Class: G06F-017/30
Fulltext Availability:
Detailed Description

Detailed Description
... herein as the subject article.

In step 306, distiller 104 extracts the textual body of the subject article. The title, abstract, figures, and other metadata of the subject article are discarded. This prevents the metadata from influencing the...

...while high proximity scores represent terms generally appearing distanced from one another.

In an alternative embodiment, proximity scores 906 are calculated as some predetermined number, e.g., twenty-five, minus the distance between terms as a number of terms and is never less than one if the terms appear in the same language unit, e.g., in the same sentence. Thus...

24/3,K/17 (Item 4 from file: 349)
DIALOG(R) File 349:PCT FULLTEXT
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00993619 **Image available**

METHOD, COMPUTER PROGRAM PRODUCT AND DEVICE FOR ARRANGING COORDINATE AREAS
RELATIVE TO EACH OTHER
PROCEDE, PRODUIT PROGRAMME D'ORDINATEUR ET DISPOSITIF PERMETTANT DE
DISPOSER DES ZONES DE COORDONNEES LES UNES PAR RAPPORT AUX AUTRES

Patent Applicant/Assignee:

ANOTO AB, Scheelevagen 19 C, S-223 70 Lund, SE, SE (Residence), SE
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Patent Applicant/Inventor:

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BURSTROM Stefan, Kamnarsvagen 8B:201, S-226 45 Lund, SE, SE (Residence),
SE (Nationality), (Designated only for: US)

Legal Representative:

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Patent and Priority Information (Country, Number, Date):

Patent: WO 200323595 A1 20030320 (WO 0323595)

Application: WO 2002SE1618 20020910 (PCT/WO SE0201618)

Priority Application: SE 20012984 20010910; US 2001318909 20010914

Designated States:

(Protection type is "patent" unless otherwise stated - for applications
prior to 2004)

AE AG AL AM AT (utility model) AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR
CU CZ (utility model) CZ DE (utility model) DE DK (utility model) DK DM
DZ EC EE (utility model) EE ES FI (utility model) FI GB GD GE GH GM HR HU
ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX
MZ NO NZ OM PH PL PT RO RU SD SE SG SI SK (utility model) SK SL TJ TM TN
TR TT TZ UA UG US UZ VN YU ZA ZM ZW

(EP) AT BE BG CH CY CZ DE DK EE ES FI FR GB GR IE IT LU MC NL PT SE SK TR

(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG

(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW

(EA) AM AZ BY KG KZ MD RU TJ TM

Publication Language: English

Filing Language: English

Fulltext Word Count: 9812

Main International Patent Class: G06F-003/033

Fulltext Availability:

Detailed Description

Detailed Description

... program product and a device that
enable a user to arrange a plurality of such documents
or data sets in a simple way.

Summary of the Invention

The above object is achieved wholly or pdrtially by
a method according to claim...on
the imaginary surface between pairs of coordinates for
two points recorded directly after each other is less
than a certain predetermined distance value . A physically
continuous line can thus he discontinuous if, when it is
recorded in electronic form, it...detected when the distance on the
imaginary surface
between two points recorded directly after each other is
larger than said predetermined distance value . The
predetermined distance value can be selected depending
upon which type of area is being recorded. An
electronically recorded line comprising...

24/3,K/18 (Item 5 from file: 349)

DIALOG(R)File 349:PCT FULLTEXT

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00766052 **Image available**

SYSTEM AND METHOD FOR DETECTING TEXT SIMILARITY OVER SHORT PASSAGES

SYSTEME ET PROCEDE DE DETECTION DE SIMILARITE DE TEXTE SUR DE COURTS
PASSAGES

Patent Applicant/Assignee:

THE TRUSTEES OF COLUMBIA UNIVERSITY IN THE CITY OF NEW YORK, 116th Street
and Broadway, New York, NY 10027, US, US (Residence), US (Nationality),
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Patent and Priority Information (Country, Number, Date):

Patent: WO 200079426 A1 20001228 (WO 0079426)

Application: WO 2000US40238 20000619 (PCT/WO US0040238)

Priority Application: US 99139930 19990618

Designated States:

(Protection type is "patent" unless otherwise stated - for applications
prior to 2004)

JP US

(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE

Publication Language: English

Filing Language: English

Fulltext Word Count: 5723

Main International Patent Class: G06F-017/21

Fulltext Availability:
Detailed Description

Detailed Description

... algorithm can add the total value of composite features found in the text segments and compare this value against a similarity threshold. Similarly, although it is preferred to determine feature values based on the use of a machine learning algorithm, feature values can be predetermined based on human experience through the use of a look-up table. Alternatively, all features can be...

...determining similarity in small text segments described herein form an important component in larger systems, such as document archiving systems and multi-document summarization systems.

Although the present invention

24/3,K/19 (Item 6 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT
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00542291 **Image available**

SEARCH SYSTEM AND METHOD BASED ON MULTIPLE ONTOLOGIES
SYSTEME ET PROCEDE DE RECHERCHE FONDES SUR DE MULTIPLES ONTOLOGIES

Patent Applicant/Assignee:

JARG CORPORATION,
BACLAWSKI Kenneth P,

Inventor(s):

BACLAWSKI Kenneth P,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200005664 A1 20000203 (WO 0005664)

Application: WO 99US16953 19990723 (PCT/WO US9916953)

Priority Application: US 9894113 19980724; US 9894110 19980724

Designated States:

(Protection type is "patent" unless otherwise stated - for applications prior to 2004)

AU CA CN ID IL JP MX US AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL
PT SE

Publication Language: English

Fulltext Word Count: 9142

Main International Patent Class: G06F-017/30

Fulltext Availability:
Detailed Description

Detailed Description

... No. 5,694,593. Assigned to Northeastern University, Boston, MA.

3 K. Baclawski and D. Simovici. An abstract model for semantically rich information retrieval. Technical report, Northeastern University, Boston, MA, March 1994.

4 A. Campbell and S. Shapiro. Algorithms for...with the highest similarity in each target ontology are returned. In another embodiment all objects which generate similarity values greater than a predetermined value are considered sufficiently similar to the query to be returned to the user as relevant information.

Once...

24/3,K/20 (Item 7 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT
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00542290 **Image available**
DISTRIBUTED COMPUTER DATABASE SYSTEM AND METHOD FOR PERFORMING OBJECT
SEARCH

SYSTEME DE BASE DE DONNEES D'ORDINATEUR REPARTIE ET PROCEDE DE MISE EN
OEUVRE D'UNE RECHERCHE D'OBJETS

Patent Applicant/Assignee:

JARG CORPORATION,
BACLAWSKI Kenneth P,

Inventor(s):

BACLAWSKI Kenneth P,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200005663 A2 20000203 (WO 0005663)

Application: WO 99US16925 19990723 (PCT/WO US9916925)

Priority Application: US 9894110 19980724; US 9894347 19980728

Designated States:

(Protection type is "patent" unless otherwise stated - for applications
prior to 2004)

AU CA CN ID IL JP MX US AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL
PT SE

Publication Language: English

Fulltext Word Count: 13747

Main International Patent Class: G06F-017/30

Fulltext Availability:

Detailed Description

Detailed Description

... also features and metadata. The data model used for such a database
can support the representation of **information** at many levels of
abstraction , including.

1 5

1. The **data** representation level, which contains the actual data of the
information object.

2. The data object level, which...Computer Science, Northeastern
University, Boston, MA, 1997.

4. P. Hayes and J. Carbonell. Scout - automated query-relevant **document**
summarization . Technical Report 1997 Project **Summary** , Carnegie Group,
Pittsburgh, PA 1997.

5. Y. Ohta. Knowledge-Based Interpretation of Outdoor Natural Color
Scenes.

Pitman...3 service can be requested. Then, based on the measure of
similarity, the implementation can return a **predetermined number** , N.
of objects with the highest similarity, or, alternatively, all objects
that generate **similarity values greater than a predetermined**
value , which are considered sufficiently similar to the query to be
returned to the user as relevant information...

File 347:JAPIO Nov 1976-2005/Jan(Updated 050506)

(c) 2005 JPO & JAPIO

File 350:Derwent WPIX 1963-2005/UD,UM &UP=200530

(c) 2005 Thomson Derwent

Set	Items	Description
S1	568637	DISTANCE? ? OR SIMILARITY
S2	21887	S1(5N) (STORY OR STORIES OR ARTICLE? ? OR DOCUMENT? ? OR PRESS() RELEASE? ? OR CONTENT OR INFORMATION OR DATA OR NEWS OR - TEXT? ? OR CLIP? ? OR PAGE? ? OR WEBPAGE? ? OR BROADCAST? ? OR TELECAST? ?)
S3	125475	(DIVID? OR SEPARAT? OR PARTITION??? OR GROUP??? OR CLUSTER- ??? OR CATEGORIZ? OR CATEGORIS?) (5N) (STORY OR STORIES OR ARTI- CLE? ? OR DOCUMENT? ? OR PRESS() RELEASE? ? OR CONTENT OR INFO- RMATION OR DATA OR NEWS OR TEXT? ? OR CLIP? ? OR PAGE? ? OR W- EBPAGE? ? OR B
S4	384780	(BUFFER??? OR MEMORY OR RAM OR STACK OR QUEU????) (5N) (STORY OR STORIES OR ARTICLE? ? OR DOCUMENT? ? OR PRESS() RELEASE? ? OR CONTENT OR INFORMATION OR DATA OR NEWS OR TEXT? ? OR CLIP? ? OR PAGE? ? OR WEBPAGE? ? OR BROADCAST? ? OR TELECAST? ?)
S5	21767	S1(5N) (VALUE? ? OR SCORE? ? OR NUMBER? ? OR NUMERAL? ? OR - FUNCTION? ?)
S6	3094	S5(5N) (SMALLER OR MINIMAL OR MINIMUM OR LEAST OR LOWEST OR LOWER OR (LESS OR MORE) () (THEN OR THAN) OR GREATER OR HIGHER - OR LARGER OR BIGGER OR MAXIMUM OR THRESHOLD? ?)
S7	26049	(SUMMARY OR SUMMARIES OR SUMMARIZ? OR SUMMARIS? OR ABSTRAC- T? OR SYNTHES? OR SYNOPSI?) (5N) (STORY OR STORIES OR ARTICLE? ? OR DOCUMENT? ? OR PRESS() RELEASE? ? OR CONTENT OR INFORMATION OR DATA OR NEWS OR TEXT? ? OR CLIP? ? OR PAGE? ? OR WEBPAGE? ? OR BROADC
S8	60	S2 AND S3:S4 AND S6
S9	1	S7 AND S8
S10	59	S8 NOT S9
S11	4	S10 AND AC=US/PR
S12	4	S11 AND AY=(1970:2002)/PR
S13	48	S10 AND PY=1970:2002
S14	49	S12:S13
S15	6	S6 AND S2 AND S7
S16	5	S15 NOT S8

14/5/11 (Item 11 from file: 347)
DIALOG(R) File 347:JAPIO
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04785650 **Image available**
OBJECT RECOGNIZING METHOD

PUB. NO.: 07-078250 [JP 7078250 A]
PUBLISHED: March 20, 1995 (19950320)
INVENTOR(s): NAKAYAMA MAKIYUKI
MAEDA TOMOYUKI
APPLICANT(s): KOBE STEEL LTD [000119] (A Japanese Company or Corporation),
JP (Japan)
APPL. NO.: 05-161446 [JP 93161446]
FILED: June 30, 1993 (19930630)
INTL CLASS: [6] G06T-007/00
JAPIO CLASS: 45.9 (INFORMATION PROCESSING -- Other)
JAPIO KEYWORD: R098. (ELECTRONIC MATERIALS -- Charge Transfer Elements, CCD & BBD)

ABSTRACT

PURPOSE: To improve recognition accuracy for an object by narrowing down or supplementing the recognition information of the object by unifying various kinds of information.

CONSTITUTION: The first similarity of an object 1 to be detected for each object in an object **group** is computed from first detection **data D** by a CCD camera 2 and natural quantity stored in memory 4 in advance and detected by the CCD camera 2 in an object 1 group. One or more candidates similar to the object 1 to be detected are extracted from the object group based on the first similarity. Second **similarity** is computed from second detection **data D** by a scale 3 and the natural quantity stored in the memory 4 in advance for each candidate and detected by the scale 3. An information unifying part 7 couples the first similarity with the second similarity for each candidate by using, for example, Dempsfer-Shafer binding rule, and one of the **maximum values** for coupled **similarity** is selected and displayed on a display part 8.

14/5/12 (Item 12 from file: 347)
DIALOG(R) File 347:JAPIO
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04587703 **Image available**
CHARACTER RECOGNITION METHOD AND CHARACTER RECOGNITION DEVICE USING THIS METHOD

PUB. NO.: 06-259603 [JP 6259603 A]
PUBLISHED: September 16, 1994 (19940916)
INVENTOR(s): NAKAYAMA YUMI
TSUTSUMIDA TOSHIO
APPLICANT(s): N T T DATA TSUSHIN KK [000000] (A Japanese Company or Corporation), JP (Japan)
APPL. NO.: 05-075071 [JP 9375071]
FILED: March 10, 1993 (19930310)
INTL CLASS: [5] G06K-009/62; G06K-009/68
JAPIO CLASS: 45.3 (INFORMATION PROCESSING -- Input Output Units)
JAPIO KEYWORD: R107 (INFORMATION PROCESSING -- OCR & OMR Optical Readers)
JOURNAL: Section: P, Section No. 1844, Vol. 18, No. 665, Pg. 17,
December 15, 1994 (19941215)

ABSTRACT

PURPOSE: To provide the character recognition device which can most suitably and stably determine the proper limit of error of candidates with respect to the recognition result of a character pattern.

CONSTITUTION: Category information and distance value information having smaller values among distance values between a feature vector of a character pattern and standard vectors in character category units are outputted from a discriminating part 3. A similar category group number to which category information among these outputs belongs is determined by a coefficient selecting part 16, and the discrimination coefficient value of each similar category group for distinction between the inclination of correct read and that of erroneous read, distance value information, and difference value data where the distribution form of the whole of a distance value string is noticed are led to a candidate probability calculating part 18, and the limit of error of candidates are derived from inner products between the discrimination coefficient value and plural difference value data.

14/5/14 (Item 14 from file: 347)
DIALOG(R) File 347:JAPIO
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03968068 **Image available**
DEVICE FOR RETRIEVING GRAPHIC

PUB. NO.: 04-333168 [JP 4333168 A]
PUBLISHED: November 20, 1992 (19921120)
INVENTOR(s): SHIMA MITSUhide
APPLICANT(s): MITSUBISHI ELECTRIC CORP [000601] (A Japanese Company or Corporation), JP (Japan)
APPL. NO.: 03-102559 [JP 91102559]
FILED: May 08, 1991 (19910508)
INTL CLASS: [5] G06F-015/40
JAPIO CLASS: 45.4 (INFORMATION PROCESSING -- Computer Applications)
JOURNAL: Section: P, Section No. 1517, Vol. 17, No. 179, Pg. 83, April 07, 1993 (19930407)

ABSTRACT

PURPOSE: To output the required number of graphics from the graphic with a highest similarity degree in sequence by calculating distance between respective kinds of graphic data and exemplified graphic data and displaying the image of the required number of the graphics from one with short distance in sequence.

CONSTITUTION: The number of the distance unit necessary for the one change of the change of intra-respective graphic elements and the change of intra-respective connection relations concerning graphic data is previously set and a distance operation means 10 compares the respective kinds of graphic data stored in a storage data memory 3 with graphic data stored in a retrieve condition memory 6 so as to calculate how many distance unit has to be changed in order to be mutually coincident graphic data. A retrieving means 7 copes the calculated number of the distance unit with the respective kinds of graphic data in the storage data memory 3 and decides the required number of graphic data inputted by a retrieve condition input means 4 from the minimum number of the unit in sequence. Furthermore, a retrieve result output means 8 reads the graphic image corresponding to the graphic data from the minimum number of the distance unit in sequence and displays it.

14/5/18 (Item 18 from file: 347)
DIALOG(R) File 347:JAPIO
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03116279 **Image available**
INFORMATION RECOGNIZING SYSTEM

PUB. NO.: 02-091779 [JP 2091779 A]

PUBLISHED: March 30, 1990 (19900330)
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APPLICANT(s): CANON INC [000100] (A Japanese Company or Corporation), JP
(Japan)
APPL. NO.: 63-242212 [JP 88242212]
FILED: September 29, 1988 (19880929)
INTL CLASS: [5] G06F-015/70
JAPIO CLASS: 45.4 (INFORMATION PROCESSING -- Computer Applications)
JOURNAL: Section: P, Section No. 1067, Vol. 14, No. 296, Pg. 83, June
26, 1990 (19900626)

ABSTRACT

PURPOSE: To include a correct recognized result and to more efficiently contract the number of candidates by generating the threshold to contract the candidates by the **maximum** value and the **minimum** value of the **distance** of a pattern inputted to a contraction function and a standard pattern.

CONSTITUTION: The **distance** of respective standard vector **information groups** of the pattern **information** of input information extracted by an extracting means 2 is calculated by a calculating means and based on the minimum distance, the threshold is determined by a threshold determining part 8. Thereafter, the distance group calculated by the determined threshold is contracted and the candidate group based on the standard vector corresponding with selection outputting means 7 and 9 is outputted. Thus, when the information to be a recognizing object is recognized and a candidate is outputted, the correct recognized result can be included in a small number of output candidates with high probability. By generating the threshold contracting the candidates by the **maximum** value and the **minimum** value of the **distance** of the pattern inputted to the contraction function and the standard pattern, the correct recognized result is included and the contraction of the number of candidates is made more effective.

14/5/26 (Item 2 from file: 350)
DIALOG(R) File 350:Derwent WPIX
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014819298 **Image available**
WPI Acc No: 2002-640004/ 200269
XRPX Acc No: N02-505908

Document clustering device for customer management in enterprise,
performs clustering of document group, based on similarity threshold
value and similarity between each document

Patent Assignee: SUMITOMO ELECTRIC IND LTD (SUME); JOHO SHORI SHINKO
JIGYO KYOKAI (JOHO-N); SUMITOMO ELECTRIC IND CO (SUME)

Number of Countries: 002 Number of Patents: 002

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 2002230012	A	20020816	JP 2001343778	A	20011108	200269 B
CN 1432908	A	20030730	CN 2002151836	A	20021108	200365

Priority Applications (No Type Date): JP 2000366976 A 20001201

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
JP 2002230012	A		19	G06F-017/30	
CN 1432908	A			G06F-007/00	

Abstract (Basic): JP 2002230012 A

NOVELTY - A calculator calculates the **similarity** between each document in a document group. Another calculator calculates a **similarity** threshold value, based on the **similarity** between each document. A clustering unit performs the **clustering** of the document group, based on the calculation results.

USE - For customer management in enterprise.
ADVANTAGE - The representation document of each cluster is performed simply and quickly.
DESCRIPTION OF DRAWING(S) - The figure shows a block diagram of the document clustering system. (Drawing includes non-English language text).

pp; 19 DwgNo 16/19
Title Terms: DOCUMENT; DEVICE; CUSTOMER; MANAGEMENT; PERFORMANCE; DOCUMENT; GROUP; BASED; SIMILAR; THRESHOLD; VALUE; SIMILAR; DOCUMENT
Derwent Class: T01
International Patent Class (Main): G06F-007/00; G06F-017/30
International Patent Class (Additional): G06F-017/27
File Segment: EPI

14/5/27 (Item 3 from file: 350)
DIALOG(R)File 350:Derwent WPIX
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014454797 **Image available**
WPI Acc No: 2002-275500/ 200232
XRPX Acc No: N02-215004

Data analysis method involves selecting minimum value indicating similarity between input data as reference value for converting data
Patent Assignee: HITACHI LTD (HITA)
Number of Countries: 001 Number of Patents: 001
Patent Family:
Patent No Kind Date Applicat No Kind Date Week
JP 2002024206 A 20020125 JP 2000206835 A 20000704 200232 B

Priority Applications (No Type Date): JP 2000206835 A 20000704
Patent Details:
Patent No Kind Lan Pg Main IPC Filing Notes
JP 2002024206 A 6 G06F-017/18

Abstract (Basic): JP 2002024206 A

NOVELTY - The values indicating similarity between each data in an input data group are calculated. The minimum calculated value is selected and used as reference for converting the data in the data group.

USE - For analysis of base sequence data group and amino acid data group.

ADVANTAGE - The similarity of data in a data group can be determined effectively.

DESCRIPTION OF DRAWING(S) - The figure shows a flowchart explaining data analysis procedure. (Drawing includes non-English language text).

pp; 6 DwgNo 1/6
Title Terms: DATA; ANALYSE; METHOD; SELECT; MINIMUM; VALUE; INDICATE; SIMILAR; INPUT; DATA; REFERENCE; VALUE; CONVERT; DATA
Derwent Class: T01
International Patent Class (Main): G06F-017/18
International Patent Class (Additional): C12N-015/00
File Segment: EPI

14/5/28 (Item 4 from file: 350)
DIALOG(R)File 350:Derwent WPIX
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014311644 **Image available**
WPI Acc No: 2002-132346/ 200218
XRPX Acc No: N02-099852

Electronic data set ordering for database management, involves setting minimum and maximum distance of data set pair to be less than and exceed limiting values, based on difference of distance of pair and

preset value

Patent Assignee: LION BIOSCIENCE AG (LION-N); MINCH E (MINC-I)

Inventor: MINCH E

Number of Countries: 096 Number of Patents: 005

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 1170674	A2	20020109	EP 2000125503	A	20001121	200218 B
WO 200205084	A2	20020117	WO 2001EP7801	A	20010706	200218
AU 200172527	A	20020121	AU 200172527	A	20010706	200234
US 20030145014	A1	20030731	WO 2001EP7801	A	20010706	200354
			US 2003332234	A	20030106	
JP 2004503849	W	20040205	WO 2001EP7801	A	20010706	200412
			JP 2002509880	A	20010706	

Priority Applications (No Type Date): EP 2000115867 A 20000724; EP 2000114636 A 20000707

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
EP 1170674	A2	E	25	G06F-017/30	
Designated States (Regional): AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO SE SI TR					
WO 200205084	A2	E		G06F-007/08	
Designated States (National): AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW					
Designated States (Regional): AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ NL OA PT SD SE SL SZ TR TZ UG ZW					
AU 200172527	A			G06F-007/08	Based on patent WO 200205084
US 20030145014	A1			G06F-017/00	
JP 2004503849	W		78	G06F-017/30	Based on patent WO 200205084

Abstract (Basic): EP 1170674 A2

NOVELTY - The minimum **distance** of a pair of data sets and the **distance** between **data** sets of a pair of **clusters** are less than a determined lowest limiting value, if a determined difference of the **distance** of a **data** set pair and specified **distance** is greater than or equal to 0. The maximum distance of the pair and the **distance** between the **data** sets are greater than a determined highest limiting value, if the difference is less than or equal to 0.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

(a) Electronic data set ordering apparatus and apparatus operation method;

(b) Database and computer program

USE - For database management in computer.

ADVANTAGE - The maximum number of data levels is limited, thus the simple data structure is achieved.

DESCRIPTION OF DRAWING(S) - The figure shows the sample of graphical display of documents.

pp; 25 DwgNo 5/8

Title Terms: ELECTRONIC; DATA; SET; ORDER; DATABASE; MANAGEMENT; SET; MINIMUM; MAXIMUM; DISTANCE; DATA; SET; PAIR; LESS; LIMIT; VALUE; BASED; DIFFER; DISTANCE; PAIR; PRESET; VALUE

Derwent Class: T01

International Patent Class (Main): G06F-007/08; G06F-017/00; G06F-017/30

File Segment: EPI

14/5/30 (Item 6 from file: 350)

DIALOG(R) File 350:Derwent WPIX

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013106451 **Image available**

WPI Acc No: 2000-278322/ 200024

XRPX Acc No: N00-209665

Pattern detecting device for distinction of coins

Patent Assignee: SANKYO SEIKI MFG CO LTD (SAOB)

Number of Countries: 001 Number of Patents: 002

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 2000076510	A	20000314	JP 98243814	A	19980828	200024 B
JP 3641368	B2	20050420	JP 98243814	A	19980828	200527

Priority Applications (No Type Date): JP 98243814 A 19980828

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
JP 2000076510	A		8	G07D-005/00	
JP 3641368	B2		9	G07D-005/00	Previous Publ. patent JP 2000076510

Abstract (Basic): JP 2000076510 A

NOVELTY - A distinction unit (10) is provided to distinguish a target pattern by collating the target pattern with a reference pattern. The distinction unit includes a rewritable memory (11) which stores threshold value data corresponding to a similarity in pattern distinction. A communication controller (12) rewrites and controls the threshold value data based on an external indication.

USE - For distinction of coins.

ADVANTAGE - Enables suitable modification of threshold value data, and enables setting of suitable distinction capability. Reduces modification cost and shortens modification period. DESCRIPTION OF

DRAWING(S) - The figure shows the block diagram of pattern detecting device. (10) Distinction unit; (11) Rewritable memory; (12) Communication controller.

Dwg.1/7

Title Terms: PATTERN; DETECT; DEVICE; DISTINCT; COIN

Derwent Class: T05

International Patent Class (Main): G07D-005/00

File Segment: EPI

14/5/31 (Item 7 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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012832435 **Image available**

WPI Acc No: 2000-004267/ 200001

XRPX Acc No: N00-003713

Aural data search apparatus in multimedia communication - outputs input search aural data or corresponding attribute information, when computed similarity in extracted characteristics of input search and key aural data, is more than preset value

Patent Assignee: ANIMO KK (ANIM-N)

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 11282857	A	19991015	JP 9881131	A	19980327	200001 B

Priority Applications (No Type Date): JP 9881131 A 19980327

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
JP 11282857	A		11	G06F-017/30	

Abstract (Basic): JP 11282857 A

NOVELTY - A calculator (1e) computes the similarity in extracted characteristics of input search and key aural data. An output unit (1f) outputs the input search aural data or the corresponding attribute information, when the computed similarity is more than predetermined value. DETAILED DESCRIPTION - The aural data searched from a memory (3a) of server (3), are input to input unit (1a),

through a network (2). Key aural data are input to another input unit (1c). An INDEPENDENT CLAIM is also included for software for aural data searching.

USE - For searching aural data in multimedia communication.

ADVANTAGE - Since the similarity in extracted characteristics of input search aural data and key aural data is computed, desired speaker's aural data are acquirable from database. Enables searching of aural data even without knowing speaker's name. DESCRIPTION OF DRAWING(S) - The figure shows theoretical diagram explaining the principle involved in aural data searching. (1a,1c) Input units; (1e) Calculator; (1f) Output unit; (2) Network; (3) Server; (3a) Memory.

Dwg.1/17

Title Terms: AURAL; DATA; SEARCH; APPARATUS; COMMUNICATE; OUTPUT; INPUT; SEARCH; AURAL; DATA; CORRESPOND; ATTRIBUTE; INFORMATION; COMPUTATION; SIMILAR; EXTRACT; CHARACTERISTIC; INPUT; SEARCH; KEY; AURAL; DATA; MORE; PRESET; VALUE

Derwent Class: P86; T01; W04

International Patent Class (Main): G06F-017/30

International Patent Class (Additional): G10L-003/00

File Segment: EPI; EngPI

14/5/33 (Item 9 from file: 350)

DIALOG(R) File 350:Derwent WPIX

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012394479 **Image available**

WPI Acc No: 1999-200586/ 199917

XRPX Acc No: N99-148414

Document searching apparatus - includes server which searches out sub-document from transposition file based on vector expression of input search conditions

Patent Assignee: JUST SYSTEM KK (JUST-N)

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 11045254	A	19990216	JP 97199614	A	19970725	199917 B

Priority Applications (No Type Date): JP 97199614 A 19970725

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
JP 11045254	A	8	G06F-017/30	

Abstract (Basic): JP 11045254 A

NOVELTY - A search server (103) converts the search condition input from a client (100) into vector expression and searches out the corresponding sub-document from a transposition file (102) based on the vector expression of input search conditions. DETAILED DESCRIPTION - A document (DB101) is divided into groups each of which consists of arbitrary number of sentences. The transposition file (102) defines the divided group as a sub-document, converts the sub-document into a vector expression, and stores in a predetermined unit. The search server (103) compares the similarity of stored vector expression of sub-document, and vector expression of input search conditions. The sub-documents whose similarity exceed a predetermined threshold value are selected, and listed. An INDEPENDENT CLAIM is included for a recording medium storing program for operating a computer to search documents.

USE - None given.

ADVANTAGE - Obtains description in the document relevant to the input search conditions directly, and utilizes the search result effectively. Documents containing some other topics are also searched reliably. Eases solution of desired sub-document. DESCRIPTION OF DRAWING(S) - The drawing shows the system block diagram of the document searching apparatus. (100) Client; (102) Transposition file; (103)

Search server.

Dwg.1/6

Title Terms: DOCUMENT; SEARCH; APPARATUS; SERVE; SEARCH; SUB; DOCUMENT;
TRANSPOSE; FILE; BASED; VECTOR; EXPRESS; INPUT; SEARCH; CONDITION

Derwent Class: T01

International Patent Class (Main): G06F-017/30

File Segment: EPI

File 8: Ei Compendex(R) 1970-2005/May W2
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File 35: Dissertation Abs Online 1861-2005/Apr
(c) 2005 ProQuest Info&Learning
File 65: Inside Conferences 1993-2005/May W3
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File 2: INSPEC 1969-2005/May W2
(c) 2005 Institution of Electrical Engineers
File 94: JICST-EPlus 1985-2005/Mar W4
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File 144: Pascal 1973-2005/May W2
(c) 2005 INIST/CNRS
File 434: SciSearch(R) Cited Ref Sci 1974-1989/Dec
(c) 1998 Inst for Sci Info
File 34: SciSearch(R) Cited Ref Sci 1990-2005/May W2
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File 99: Wilson Appl. Sci & Tech Abs 1983-2005/Apr
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File 266: FEDRIP 2005/Jan
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File 95: TEME-Technology & Management 1989-2005/Apr W1
(c) 2005 FIZ TECHNIK
File 438: Library Lit. & Info. Science 1984-2005/Apr
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Set	Items	Description
S1	1069148	DISTANCE? ? OR SIMILARITY
S2	38936	S1(5N) (STORY OR STORIES OR ARTICLE? ? OR DOCUMENT? ? OR PRESS()RELEASE? ? OR CONTENT OR INFORMATION OR DATA OR NEWS OR TEXT? ? OR CLIP? ? OR PAGE? ? OR WEBPAGE? ? OR BROADCAST? ? OR TELECAST? ?)
S3	240224	(DIVID? OR SEPARAT? OR PARTITION??? OR GROUP??? OR CLUSTER??? OR CATEGORIZ? OR CATEGORIS?) (5N) (STORY OR STORIES OR ARTICLE? ? OR DOCUMENT? ? OR PRESS()RELEASE? ? OR CONTENT OR INFORMATION OR DATA OR NEWS OR TEXT? ? OR CLIP? ? OR PAGE? ? OR WEBPAGE? ? OR B
S4	79134	(BUFFER??? OR MEMORY OR RAM OR STACK OR QUEUE???) (5N) (STORY OR STORIES OR ARTICLE? ? OR DOCUMENT? ? OR PRESS()RELEASE? ? OR CONTENT OR INFORMATION OR DATA OR NEWS OR TEXT? ? OR CLIP? ? OR PAGE? ? OR WEBPAGE? ? OR BROADCAST? ? OR TELECAST? ?)
S5	70299	S1(5N) (VALUE? ? OR SCORE? ? OR NUMBER? ? OR NUMERAL? ? OR FUNCTION? ?)
S6	5302	S5(5N) (SMALLER OR MINIMAL OR MINIMUM OR LEAST OR LOWEST OR LOWER OR BELOW OR ABOVE OR (LESS OR MORE) () (THEN OR THAN) OR GREATER OR HIGHER OR LARGER OR BIGGER OR MAXIMUM OR THRESHOLD? ?)
S7	607860	(SUMMARY OR SUMMARIES OR SUMMARIZ? OR SUMMARIS? OR ABSTRACT? OR SYNTHES? OR SYNOPSI?) (5N) (STORY OR STORIES OR ARTICLE? ? OR DOCUMENT? ? OR PRESS()RELEASE? ? OR CONTENT OR INFORMATION OR DATA OR NEWS OR TEXT? ? OR CLIP? ? OR PAGE? ? OR WEBPAGE? ? OR BROADC
S8	13974	(PREDETERMIN? OR PRESET? OR PREESTABLISH? OR PREDEFIN? OR PREARRANGED OR PRESCRIBED OR (PREVIOUSLY OR PRE) () (DETERMIN? OR SET???? OR ESTABLISH? OR DEFIN? OR ARRANGED)) (5N) (VALUE? ? OR SCORE? ? OR NUMBER? ? OR NUMERAL? ?)
S9	47	S2 AND S3: S4 AND S6
S10	1	S9 AND S7: S8
S11	85	S3: S4 (15N) S8
S12	4	S2 AND S11
S13	1	S7 AND S11
S14	5	S12: S13
S15	4	RD (unique items)
S16	73	(PREDETERMIN? OR PRESET? OR PREESTABLISH? OR PREDEFIN? OR

✓

PREARRANGED OR PRESCRIBED OR (PREVIOUSLY OR PRE) () (DETERMIN? -
OR SET???? OR ESTABLISH? OR DEFIN? OR ARRANGED)) (5N) (VALUE? ?
OR SCORE? ? OR NUMBER? ? OR NUMERAL? ?) (5N) (BUFFER? ? OR QUEU-
E? ?)

S17	0	S2 AND S16
S18	0	S5 AND S16

15/5/1 (Item 1 from file: 8)
DIALOG(R) File 8: Ei Compendex(R)
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05464054 E.I. No: EIP00014980365

Title: **Clustering algorithm based on competitive learning**
Author: de la Torre, Javier; Vico, Francisco J.; Veredas, Francisco J.
Corporate Source: Universidad de Malaga, Malaga, Spain
Conference Title: Proceedings of the 1999 Artificial Neural Networks in
Engineering Conference (ANNIE '99)
Conference Location: St. Louis, MO, USA Conference Date:
19991107-19991110

E.I. Conference No.: 56243
Source: Intelligent Engineering Systems Through Artificial Neural
Networks v 9 1999. p 765-770
Publication Year: 1999
CODEN: IEANFQ
Language: English
Document Type: JA; (Journal Article) Treatment: T; (Theoretical)
Journal Announcement: 0003W2

Abstract: The competitive learning algorithm yields a fixed number of categories as it forms groups with the n-dimensional objects of the workspace. A way to establish how good these categories are is to consider the number of objects that belong to the class and the mean distance from them to the class prototype. These values ascertain the category's generality and similarity. Depending on a certain particular problem, it may occur that the only interesting categories are those that meet some **preset values** for generality and similarity. In this article, a **clustering** algorithm based on competitive learning is proposed, in which the clustering process is repeated for those objects that do not satisfy the above conditions, while saving the categories that do. Due to this iterative process, the formed groups finally meet the required values of generality and similarity. (Author abstract) 6 Refs.

Descriptors: *Learning systems; Learning algorithms; Iterative methods
Identifiers: Clustering algorithms; Competitive learning
Classification Codes:
723.4 (Artificial Intelligence); 921.6 (Numerical Methods)
723 (Computer Software); 921 (Applied Mathematics)
72 (COMPUTERS & DATA PROCESSING); 92 (ENGINEERING MATHEMATICS)

15/5/2 (Item 1 from file: 2)
DIALOG(R) File 2: INSPEC
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8303422 INSPEC Abstract Number: C2005-04-7240-028

Title: **Cross-comparison for two-dimensional text categorization**
Author(s): Di Nunzio, G.M.
Author Affiliation: Dept. of Inf. Eng., Padua Univ., Italy
Conference Title: String Processing and Information Retrieval. 11th
International Conference, SPIRE 2004. Proceedings (Lecture Notes in Comput.
Sci. Vol.3246) p.125-6
Editor(s): Apostolico, A.; Melucci, M.
Publisher: Springer-Verlag, Berlin, Germany
Publication Date: 2004 Country of Publication: Germany xiv+332 pp.
ISBN: 3 540 23210 9 Material Identity Number: XX-2004-02233
Conference Title: String Processing and Information Retrieval. 11th
International Conference, SPIRE 2004. Proceedings
Conference Sponsor: Department of Information Eng. of the Univ. of Padova
; Inst. of High Performance Comput. and Networking (ICAR) of the Nat. Res.
Council (CNR); Italian Assoc. for Informatics and Automatic Computation
(AICA); Elsevier
Conference Date: 5-8 Oct. 2004 Conference Location: Padova, Italy
Language: English Document Type: Conference Paper (PA)
Treatment: Practical (P)

Abstract: The organization of large text collections is the main goal of automated text categorization. In particular, the final aim is to classify documents into a certain number of pre-defined categories in an efficient way and with as much accuracy as possible. On-line and run-time services, such as personalization services and information filtering services, have increased the importance of effective and efficient document categorization techniques. In the last years, a wide range of supervised learning algorithms have been applied to this problem. Recently, a new approach that exploits a two-dimensional summarization of the data for text classification was presented. This method does not go through a selection of words phase; instead, it uses the whole dictionary to present data in intuitive way on two-dimensional graphs. Although successful in terms of classification effectiveness and efficiency, this method presents some unsolved key issues: the design of the training algorithm seems to be ad hoc for the Reuters-21578 collection; the evaluation has only been done only on the 10 most frequent classes of the Reuters-21578 dataset; the evaluation lacks measure of significance in most parts; the method adopted lacks a mathematical justification. We focus on the first three aspects, leaving the fourth as the future work. (4 Refs)

Subfile: C

Descriptors: classification; information filtering; text analysis

Identifiers: two-dimensional text categorization; large text collections; automated text categorization; predefined categories; online services; run-time services; personalization services; information filtering services; document categorization; two-dimensional summarization; text classification; Reuters-21578 collection; two-dimensional graphs

Class Codes: C7240 (Information analysis and indexing); C6130D (Document processing techniques)

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15/5/3 (Item 1 from file: 144)
DIALOG(R) File 144:Pascal
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16568643 PASCAL No.: 04-0217276

Text categorization with ILA

Computer and information sciences : Antalya, 3-5 November 2003

SEVER Hayri; GORUR Abdulkadir; TOLUN Mehmet R

YAZICI Adnan, ed; SENER Cevat, ed

Department of Computer Engineering, Baskent University, 06530 Baglica, Ankara, Turkey; Department of Computer Engineering, Eastern Mediterranean University (Via Mersin 10), Famagusta, T.R.N.C. ; Turkey; Department of Computer Engineering, Atilim University, 06836 Incek, Ankara, Turkey

ISCIS 2003 : international symposium on computer and information sciences, 18 (Antalya TUR) 2003-11-03

Journal: Lecture notes in computer science, 2003, 2869 300-307

ISBN: 3-540-20409-1 ISSN: 0302-9743 Availability: INIST-16343; 354000117812430380

No. of Refs.: 8 ref.

Document Type: P (Serial); C (Conference Proceedings) ; A (Analytic)

Country of Publication: Germany

Language: English

The sudden expansion of the web and the use of the internet has caused some research fields to regain (or even increase) its old popularity. Of them, text categorization aims at developing a classification system for assigning a number of predefined topic codes to the documents based on the knowledge accumulated in the training process. We propose a framework based on an automatic inductive classifier, called ILA, for text categorization, though this attempt is not a novel approach to the information retrieval community. Our motivation are two folds. One is that there is still much to do for efficient and effective classifiers. The second is of ILA's (Inductive Learning Algorithm) well-known ability in capturing by canonical rules the distinctive features of text categories. Our results with respect to the Reuters 21578 corpus indicate (1) the

reduction of features by information gain measurement down to 20 is essentially as good as the case where one would have more features; (2) recall/precision breakeven points of our algorithm without tuning over top 10 categories are comparable to other text categorization methods, namely similarity based matching, naive Bayes, Bayes nets, decision trees, linear support vector machines, steepest descent algorithm.

English Descriptors: Text; Internet; Classification; On line; Information retrieval; Inductive learning; Learning algorithm; **Information** measure; **Similarity** ; Categorization; World wide web; Knowledge base; Recall; Steepest descent method; Vector support machine

File 275:Gale Group Computer DB(TM) 1983-2005/May 16
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File 621:Gale Group New Prod.Annou.(R) 1985-2005/May 16
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File 636:Gale Group Newsletter DB(TM) 1987-2005/May 16
(c) 2005 The Gale Group
File 16:Gale Group PROMT(R) 1990-2005/May 13
(c) 2005 The Gale Group
File 160:Gale Group PROMT(R) 1972-1989
(c) 1999 The Gale Group
File 148:Gale Group Trade & Industry DB 1976-2005/May 16
(c)2005 The Gale Group
File 624:McGraw-Hill Publications 1985-2005/May 16
(c) 2005 McGraw-Hill Co. Inc
File 15:ABI/Inform(R) 1971-2005/May 16
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File 674:Computer News Fulltext 1989-2005/May W2
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File 369:New Scientist 1994-2005/Apr W2
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Set	Items	Description
S1	793710	DISTANCE? ? OR SIMILARITY
S2	68892	S1(5N) (STORY OR STORIES OR ARTICLE? ? OR DOCUMENT? ? OR PRESS()RELEASE? ? OR CONTENT OR INFORMATION OR DATA OR NEWS OR TEXT? ? OR CLIP? ? OR PAGE? ? OR WEBPAGE? ? OR BROADCAST? ? OR TELECAST? ?)
S3	835642	(DIVID? OR SEPARAT? OR PARTITION??? OR GROUP??? OR CLUSTER??? OR CATEGORIZ? OR CATEGORIS?) (5N) (STORY OR STORIES OR ARTICLE? ? OR DOCUMENT? ? OR PRESS()RELEASE? ? OR CONTENT OR INFORMATION OR DATA OR NEWS OR TEXT? ? OR CLIP? ? OR PAGE? ? OR WEBPAGE? ? OR B
S4	136296	(BUFFER??? OR MEMORY OR RAM OR STACK OR QUEUE????) (5N) (STORY OR STORIES OR ARTICLE? ? OR DOCUMENT? ? OR PRESS()RELEASE? ? OR CONTENT OR INFORMATION OR DATA OR NEWS OR TEXT? ? OR CLIP? ? OR PAGE? ? OR WEBPAGE? ? OR BROADCAST? ? OR TELECAST? ?)
S5	21771	S1(5N) (VALUE? ? OR SCORE? ? OR NUMBER? ? OR NUMERAL? ? OR FUNCTION? ?)
S6	1369	S5(5N) (SMALLER OR MINIMAL OR MINIMUM OR LEAST OR LOWEST OR LOWER OR BELOW OR ABOVE OR (LESS OR MORE) () (THEN OR THAN) OR GREATER OR HIGHER OR LARGER OR BIGGER OR MAXIMUM OR THRESHOLD? ?)
S7	235371	(SUMMARY OR SUMMARIES OR SUMMARIZ? OR SUMMARIS? OR ABSTRACT? OR SYNTHES? OR SYNOPSI?) (5N) (STORY OR STORIES OR ARTICLE? ? OR DOCUMENT? ? OR PRESS()RELEASE? ? OR CONTENT OR INFORMATION OR DATA OR NEWS OR TEXT? ? OR CLIP? ? OR PAGE? ? OR WEBPAGE? ? OR BROADC
S8	13588	(PREDETERMIN? OR PRESET? OR PREESTABLISH? OR PREDEFIN? OR PREARRANGED OR PRESCRIBED OR (PREVIOUSLY OR PRE) () (DETERMIN? OR SET???? OR ESTABLISH? OR DEFIN? OR ARRANGED)) (5N) (VALUE? ? OR SCORE? ? OR NUMBER? ? OR NUMERAL? ?)
S9	7	S2(50N)S3:S4(50N)S6
S10	7	RD (unique items)
S11	342	(DIVID? OR SEPARAT? OR PARTITION??? OR GROUP??? OR CLUSTER??? OR CATEGORIZ? OR CATEGORIS?) (10N)S8
S12	0	S5(30N)S11
S13	338	(PREDETERMIN? OR PRESET? OR PREESTABLISH? OR PREDEFIN? OR PREARRANGED OR PRESCRIBED OR (PREVIOUSLY OR PRE) () (DETERMIN? OR SET???? OR ESTABLISH? OR DEFIN? OR ARRANGED)) (7N) (BUFFER? ? OR QUEUE? ?)
S14	0	S5(50N)S13

S15

0

S2 (50N) S13

10/3,K/1 (Item 1 from file: 148)
DIALOG(R)File 148:Gale Group Trade & Industry DB
(c)2005 The Gale Group. All rts. reserv.

09824639 SUPPLIER NUMBER: 19938970 (USE FORMAT 7 OR 9 FOR FULL TEXT)
**PRIMUS Telecommunications Acquires Telepassport and Assets of USFI; PRIMUS
Expands Into Japan and Germany**
PR Newswire, p1020NYM147
Oct 20, 1997
LANGUAGE: English RECORD TYPE: Fulltext
WORD COUNT: 599 LINE COUNT: 00057

... base."
PRIMUS Telecommunications Group, Incorporated is a global
telecommunications company focused on providing domestic and international
long- distance voice, data , private network and value -added services
to more than 100,000 customers worldwide. Founded in 1994, PRIMUS today
operates from headquarters in Vienna, Va., with over...

...region. News and information are available on the Internet at
<http://www.primustel.com> .

To receive additional information on PRIMUS Telecommunications
Group , Incorporated via fax at no charge, dial 1-800-PRO-INFO and enter
code PRTL.

Investors are...

10/3,K/2 (Item 1 from file: 15)
DIALOG(R)File 15:ABI/Inform(R)
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02849573 795114391
**GOAL PROGRAMMING FORMULATIONS FOR A COMPARATIVE ANALYSIS OF SCALAR NORMS
AND ORDINAL VS. RATIO DATA**
Lee, Sang M; Olson, David L
INFOR v42n3 PP: 163-174 Aug 2004
ISSN: 0315-5986 JRNL CODE: IOR
WORD COUNT: 4284

...TEXT: mining techniques include linear discriminant analysis and various
forms of multiple criteria programming classification. Objectives used in
data mining include maximization of minimum distances of data
records from critical values , as well as separation of data records
by minimizing the sum of deviations from critical values. These build upon
the basic goal programming...

10/3,K/3 (Item 2 from file: 15)
DIALOG(R)File 15:ABI/Inform(R)
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02241223 84987053
Targets and how to assess performance against them
Walsh, Paul
Benchmarking v7n3 PP: 183-199 2000
ISSN: 1463-5771 JRNL CODE: BCHK
WORD COUNT: 5499

...TEXT: relative to target must be considered as a separate exercise. The
methods below only apply to performance data that can be categorised as
business as usual, that is stable performance. Periods where shifts or
trends are present must be considered as separate calculations.

Case 1. Less than 30 points - counting and distance methods

When the number of data points is less than 30, the methods are statistically unsophisticated. Two methods are presented, the counting and distance methods.

The counting...

10/3,K/4 (Item 3 from file: 15)
DIALOG(R)File 15:ABI/Inform(R)
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01334691 99-84087

The changing careers of patients with chronic mental illness: A study of sequential patterns in mental health service utilization

Wuerker, Anne K

Journal of Mental Health Administration v23n4 PP: 458-470 Fall 1996

ISSN: 0092-8623 JRNL CODE: MHA

WORD COUNT: 5813

...TEXT: input was to the cluster program. For both analyses, two-stage density linkage produced the most distinct clusters, although other clustering methods grouped the data in very similar ways.

A five-cluster solution was chosen for the frequency data, based on peaks ...

...of the clustering history. Note that in the SAS cluster program, fewer diagnostic statistics are available for distance data. Although a smaller number of clusters would seem to be better given N = 49, the clustering history showed that beyond eight, the largest...

10/3,K/5 (Item 4 from file: 15)
DIALOG(R)File 15:ABI/Inform(R)
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00507661 90-33418

An Investigation of Document Structures

Shaw, William M., Jr.

Information Processing & Management v26n3 PP: 339-348 1990

ISSN: 0306-4573 JRNL CODE: IPM

ABSTRACT: Clustering is a useful tool in exploratory data analysis. The presence of clustering structure in a document collection and the influence of this presence on the success of cluster-based retrieval are investigated as a function of term-weight and similarity thresholds. The term-weight threshold selects a specific level of indexing exhaustivity for a document representation, while the similarity threshold specifies the level of the associated single-link hierarchy. Clear evidence for clustering structure is found...

10/3,K/6 (Item 5 from file: 15)
DIALOG(R)File 15:ABI/Inform(R)
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00310368 86-10782

An Investigation of Document Partitions

Shaw, W. M., Jr.

Information Processing & Management v22n1 PP: 19-28 1986

ISSN: 0306-4573 JRNL CODE: IPM

ABSTRACT: The empirical significance of document partitions as a function of term-weight and similarity thresholds is investigated. The term-weight threshold selects a particular level of indexing

exhaustivity and specificity for the document representation. The similarity threshold selects a specific level of the related single-link hierarchy. The results demonstrate that the same...

...These results represent the first step in an investigation designed to determine if the statistical relevance of document partitions can explain the empirical significance of the same partitions. ...

10/3,K/7 (Item 1 from file: 696)
DIALOG(R)File 696:DIALOG Telecom. Newsletters
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00763198
WORLD COM REPORTS LOWER NET EARNINGS
WASHINGTON TELECOM NEWSWIRE
April 26, 2001 DOCUMENT TYPE: NEWSLETTER
PUBLISHER: WARREN PUBLISHING INC.
LANGUAGE: ENGLISH WORD COUNT: 247 RECORD TYPE: FULLTEXT

(c) WARREN PUBLISHING INC. All Rts. Reserv.

TEXT:

Number 2 U.S. long- distance carrier WorldCom posted lower first quarter income as its declining long- distance telephone business offset its higher data , Internet and international revenues. WorldCom, which plans to create a tracking stock for its shrinking consumer and...

...worldwide rose to \$9.7 billion, from \$9.6 billion a year earlier. Revenues for the WorldCom group , which includes its data business, rose 12% to \$6.1 billion. Of this, data and Internet services brought in \$2.8...